

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 17, 2005, 05:16:46 ; Search time 172 seconds  
(without alignments)  
1071.175 Million cell updates/sec

Perfect score: 2529  
Sequence: 1 MLHPETSPGRGHLAVLLAL.....RNRYYCQFAQHISRWGPGS 455

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1812044 seqs, 404927589 residues

Total number of hits satisfying chosen parameters: 1812044

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1500 summaries

Database : Published Applications AA:  
1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*  
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21: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*  
22: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	2529	100.0	455	9	US-09-944-457-50
23	2529	100.0	455	15	US-10-429-667-50
24	2529	100.0	455	15	US-10-677-471-50
25	2529	100.0	455	15	US-10-677-669-50
26	2529	100.0	455	16	US-10-735-014-50
27	2529	100.0	455	16	US-10-854-947-50
28	2529	100.0	455	16	US-10-858-993-50
29	2529	100.0	455	17	US-10-901-400-50
30	2529	100.0	455	17	US-10-858-981-50
31	2529	100.0	455	17	US-10-899-671-50
32	2529	100.0	455	17	US-10-943-353-50
33	2447.5	96.8	446	9	US-09-726-643-47

34	2447.5	96.8	446	9	US-09-790-264-2
35	2447.5	96.8	446	13	US-10-042-141-47
36	2447.5	96.8	446	14	US-10-269-353-2
37	2447.5	96.8	446	15	US-10-169-395-5
38	2447.5	96.8	446	17	US-10-919-272-47
39	2447.5	96.8	446	17	US-10-900-926-2
40	2315.5	91.6	420	9	US-09-790-264-4
41	2315.5	91.6	420	14	US-10-269-353-4
42	2315.5	91.6	420	17	US-10-900-926-4
43	2241	88.6	415	15	US-10-309-290-84
44	1961.5	77.6	506	18	US-10-450-763-42516
45	1732	68.5	395	18	US-10-450-763-57962
46	1145	45.3	276	18	US-10-450-763-42515
47	735	29.1	493	18	US-10-450-763-47382
48	512	20.2	1220	18	US-10-450-763-54677
49	429.5	17.0	263	18	US-10-450-763-42517
50	280	11.1	463	14	US-10-387-495-4
51	280	11.1	463	15	US-10-429-668-9
52	280	11.1	550	15	US-10-429-668-8
53	280	11.1	625	15	US-10-429-668-7
54	273	10.8	506	15	US-10-429-668-2
55	273	10.8	593	15	US-10-429-668-3
56	272	10.8	463	9	US-09-905-291A-285
57	272	10.8	463	14	US-10-299-976-285
58	272	10.8	463	14	US-10-299-976-285
59	272	10.8	463	15	US-10-298-993-285
60	272	10.8	463	15	US-10-448-923-285
61	272	10.8	463	15	US-10-449-656-285
62	272	10.8	463	15	US-10-448-713-285
63	272	10.8	463	15	US-10-448-713-285
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81	272	10.8	463	15	US-10-448-713-285
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83	265	10.5	498	10	US-09-789-390-21
84	265	10.5	498	10	US-09-789-390-21
85	265	10.5	498	10	US-09-789-390-21
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87	260.5	10.3	497	14	US-10-219-065-56
88	260.5	10.3	497	15	US-10-416-314-63
89	260.5	10.3	497	17	US-10-901-801-2
90	259.5	10.3	497	10	US-09-789-390-17
91	259.5	10.3	497	10	US-09-789-390-43
92	259.5	10.2	468	10	US-09-789-390-44
93	257.5	10.2	497	10	US-09-789-390-45
94	257.5	10.2	497	10	US-09-789-390-45
95	257.5	10.2	497	17	US-10-363-374-2
96	256.5	10.1	468	10	US-09-789-390-75
97	256.5	10.1	477	10	US-09-789-390-19
98	254.5	10.1	239	14	US-10-091-135-85
99	254.5	10.1	255	9	US-09-876-225-2
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102	254.5	10.1	257	10	US-09-800-198-88
103	254.5	10.1	258	9	US-09-808-603-110
104	254.5	10.1	258	15	US-09-800-198-96
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106	254.5	10.1	258	16	US-10-755-889-402
107	253	10.0	253	10	US-09-800-198-97
108	253	10.0	253	15	US-10-243-552-580
109	253	10.0	253	15	US-10-094-886-120
110	252	10.0	191	10	US-09-789-390-42
111	252	10.0	191	10	US-09-789-390-46
112	252	10.0	245	14	US-10-205-823-363
113	252	10.0	245	15	US-10-341-434-28
114	252	10.0	245	15	US-10-341-434-28
115	252	10.0	245	20	US-11-051-454-363
116	251	9.9	497	17	US-10-488-528-2
117	251	9.9	497	17	US-10-488-528-4
118	250	9.9	245	10	US-09-800-198-98
119	249	9.8	242	17	US-10-931-886-262
120	249	9.8	1163	242	US-10-955-952-262
121	247.5	9.8	191	10	US-09-789-390-74

1165	241	9.5	300	9	US-09-808-602-27
1166	241	9.5	300	10	US-09-800-198-25
1167	240	9.5	188	9	US-09-808-602-109
1168	240	9.5	188	10	US-09-800-198-95
1169	237.5	9.4	431	9	US-09-808-602-113
1170	237.5	9.4	501	10	US-09-789-390-23
1171	237.5	9.4	501	10	US-09-789-390-77
1172	236.5	9.4	348	18	US-10-450-763-50135
1173	236	9.3	1268	18	US-10-698-190-24
1174	235.5	9.3	500	9	US-09-808-602-108
1175	235.5	9.3	500	9	US-09-808-602-112
1176	235.5	9.3	500	9	US-09-808-602-114
1196	235.5	9.3	500	10	US-09-800-198-94
1461	235.5	9.3	500	14	US-10-167-749-363

Sequence 27, Appl  
Sequence 25, Appl  
Sequence 109, App  
Sequence 95, Appl  
Sequence 113, Appl  
Sequence 23, Appl  
Sequence 77, Appl  
Sequence 50135, A  
Sequence 24, Appl  
Sequence 108, App  
Sequence 112, App  
Sequence 114, App  
Sequence 94, Appl  
Sequence 363, App

Search completed: September 17, 2005, 05:32:28  
Job time : 179 secs

GenCore version 5.1.1.6  
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OM protein - protein search, using sw model

Run on: September 17, 2005, 06:47:25 ; Search time 44 Seconds  
(without alignments)  
771.939 Million cell updates/sec

Title: US-09-944-896-50  
Perfect score: 2529  
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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1500 summaries

Database : Issued Patents AA:\*

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3: /cgn2\_6/prodata/1/iaa/6A COMB.pep:\*

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5: /cgn2\_6/prodata/1/iaa/PCITUS COMB.pep:\*

6: /cgn2\_6/prodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2529	100.0	455	4	US-09-866-028-50
2	2529	100.0	455	4	US-09-944-457-50
3	272	10.8	463	4	US-09-907-794A-285
4	272	10.8	463	4	US-09-905-125A-285
5	272	10.8	463	4	US-09-902-775A-285
6	272	10.8	463	4	US-09-906-700-285
7	272	10.8	463	4	US-09-903-603A-285
8	272	10.8	463	4	US-09-904-920A-285
9	272	10.8	463	4	US-09-909-064-285
10	272	10.8	463	4	US-09-905-381A-285
11	272	10.8	463	4	US-09-906-618-285
12	267	10.6	270	3	US-08-773-368-1
13	267	10.6	270	3	US-09-199-887-1
14	259	10.2	258	4	US-09-698-781-3
15	232	9.2	219	2	US-08-773-368-3
16	232	9.2	219	3	US-09-199-887-3
17	231	9.1	266	2	US-08-773-368-4
18	231	9.1	266	3	US-09-199-887-4
19	222.5	8.8	257	4	US-09-949-016-7490
20	221	8.7	243	4	US-09-541-759-7
21	213.5	8.4	249	4	US-09-949-016-6025
22	213.5	8.4	267	4	US-09-949-016-7489
23	212	8.4	1257	1	US-08-340-428B-49
24	196	7.8	2409	6	5180808-2
25	196	7.8	2409	6	5180808-2
26	189.5	7.5	1455	3	US-08-840-062-5
27	185	7.3	151	1	US-08-614-935-28

28	185	7.3	151	3	US-09-130-287-28	Sequence 28, Appl
29	182.5	7.2	135	2	US-07-857-224B-97	Sequence 97, Appl
30	182.5	7.2	135	2	US-07-857-224B-98	Sequence 98, Appl
31	180.5	7.1	135	2	US-07-857-224B-99	Sequence 99, Appl
32	180.5	7.1	205	1	US-08-419-414-10	Sequence 10, Appl
33	180.5	7.1	205	1	US-08-614-935-6	Sequence 6, Appl
34	180.5	7.1	205	1	US-08-614-935-7	Sequence 7, Appl
35	180.5	7.1	205	3	US-09-130-287-6	Sequence 6, Appl
36	180.5	7.1	205	3	US-09-130-287-7	Sequence 7, Appl
37	178.5	7.1	1456	4	US-09-976-594-168	Sequence 168, Appl
38	178	7.0	737	4	US-09-866-028-15	Sequence 15, Appl
39	178	7.0	737	4	US-09-944-457-15	Sequence 15, Appl
40	174	6.9	111	2	US-07-857-224B-105	Sequence 105, Appl
41	172	6.8	138	2	US-07-857-224B-100	Sequence 100, Appl
42	172	6.8	163	4	US-09-257-583-13	Sequence 13, Appl
43	171	6.8	139	2	US-07-857-224B-101	Sequence 101, Appl
44	171	6.8	168	1	US-08-181-271A-45	Sequence 45, Appl
45	171	6.8	168	1	US-08-449-315-45	Sequence 45, Appl
46	171	6.8	168	1	US-08-444-803-45	Sequence 45, Appl
47	171	6.8	168	1	US-08-449-043-45	Sequence 45, Appl
48	171	6.8	168	1	US-08-456-265A-45	Sequence 45, Appl
49	171	6.8	168	1	US-08-455-416-45	Sequence 45, Appl
50	171	6.8	168	1	US-08-455-244-45	Sequence 45, Appl
51	171	6.8	168	1	US-08-454-876-45	Sequence 45, Appl
52	171	6.8	168	2	US-08-457-364-45	Sequence 45, Appl
53	171	6.8	168	2	US-08-456-262-45	Sequence 45, Appl
54	171	6.8	168	2	US-08-456-240-45	Sequence 45, Appl
55	171	6.8	168	2	US-08-455-736-45	Sequence 45, Appl
56	171	6.8	168	2	US-08-971-217-45	Sequence 45, Appl
57	171	6.8	168	3	US-09-350-600-45	Sequence 45, Appl
58	171	6.8	168	4	US-09-906-234-45	Sequence 45, Appl
59	169	6.7	204	1	US-08-614-935-1	Sequence 1, Appl
60	169	6.7	204	3	US-09-130-287-1	Sequence 1, Appl
61	168.5	6.7	912	5	PCT-US95-03747-2	Sequence 2, Appl
62	168.5	6.7	2321	4	US-09-230-652-2	Sequence 2, Appl
63	168	6.6	171	2	US-08-773-368-6	Sequence 6, Appl
64	168	6.6	171	3	US-09-199-887-6	Sequence 6, Appl
65	166	6.6	204	1	US-08-419-414-9	Sequence 9, Appl
66	166	6.6	204	1	US-08-614-935-2	Sequence 2, Appl
67	166	6.6	204	3	US-09-130-287-2	Sequence 2, Appl
68	166	6.6	227	4	US-09-541-759-6	Sequence 6, Appl
69	165	6.5	139	2	US-07-857-224B-102	Sequence 102, Appl
70	164.5	6.5	167	3	US-08-773-368-5	Sequence 5, Appl
71	164.5	6.5	167	3	US-09-199-887-5	Sequence 5, Appl
72	161.5	6.4	114	2	US-07-857-224B-106	Sequence 106, Appl
73	161.5	6.4	114	2	US-07-857-224B-108	Sequence 108, Appl
74	161.5	6.4	205	1	US-08-614-935-4	Sequence 4, Appl
75	161.5	6.4	205	3	US-09-130-287-4	Sequence 4, Appl
76	161.5	6.4	2523	1	US-08-185-432-18	Sequence 18, Appl
77	161.5	6.4	2523	4	US-08-899-232-3	Sequence 3, Appl
78	161.5	6.4	2523	4	US-09-121-457-3	Sequence 3, Appl
79	161	6.4	273	4	US-09-638-203-2	Sequence 2, Appl
80	159	6.3	722	3	US-08-981-392-12	Sequence 12, Appl
81	159	6.3	722	4	US-09-908-322-12	Sequence 12, Appl
82	158.5	6.3	150	1	US-08-614-935-29	Sequence 29, Appl
83	158.5	6.3	150	3	US-09-130-287-29	Sequence 29, Appl
84	158.5	6.3	728	3	US-08-981-392-2	Sequence 2, Appl
85	158.5	6.3	728	3	US-09-908-322-2	Sequence 2, Appl
86	158.5	6.3	729	3	US-08-872-855-8	Sequence 8, Appl
87	158	6.2	424	1	US-08-419-414-2	Sequence 2, Appl
88	158	6.2	720	3	US-08-872-855-4	Sequence 4, Appl
89	157	6.2	204	1	US-08-614-935-5	Sequence 5, Appl
90	157	6.2	204	3	US-09-130-287-5	Sequence 5, Appl
91	156	6.2	520	3	US-09-068-740A-3	Sequence 3, Appl
92	156	6.2	702	3	US-09-068-740A-9	Sequence 9, Appl
93	156	6.2	723	3	US-09-068-740A-9	Sequence 9, Appl
94	156	6.2	723	4	US-09-423-753-27	Sequence 27, Appl
95	156	6.2	723	4	US-09-641-612-6	Sequence 6, Appl
96	156	6.2	2703	1	US-08-185-432-19	Sequence 19, Appl
97	156	6.2	2703	4	US-08-899-232-4	Sequence 4, Appl
98	156	6.2	2703	4	US-09-121-457-4	Sequence 4, Appl
99	155	6.1	717	3	US-08-872-855-9	Sequence 9, Appl
100	154.5	6.1	114	2	US-07-857-224B-107	Sequence 107, Appl

101	154.5	6.1	141	2	US-07-857-2248-104	Sequence 104, App	174	141	5.6	659	4	US-09-423-753-3	Sequence 3, Appli
102	154.5	6.1	721	3	US-08-981-392-5	Sequence 5, Appli	175	141	5.6	685	3	US-08-872-855-2	Sequence 2, Appli
103	154.5	6.1	721	1	US-09-908-322-5	Sequence 5, Appli	176	141	5.6	685	4	US-09-423-753-25	Sequence 25, Appli
104	154	6.1	135	2	US-07-857-2248-103	Sequence 103, App	177	141	5.6	685	4	US-09-641-612-7	Sequence 7, Appli
105	154	6.1	713	3	US-08-872-855-5	Sequence 5, Appli	178	141	5.6	1157	4	US-09-949-016-9568	Sequence 9568, Ap
106	153.5	6.1	721	3	US-08-872-855-7	Sequence 7, Appli	179	141	5.6	1219	3	US-08-882-046-5	Sequence 5, Appli
107	153	6.0	138	2	US-07-857-2248-112	Sequence 112, App	180	141	5.6	1219	4	US-09-566-047-5	Sequence 5, Appli
108	153	6.0	166	1	US-08-614-935-30	Sequence 30, Appl	181	140.5	5.6	137	2	US-07-857-2248-111	Sequence 111, App
109	153	6.0	166	3	US-09-130-287-30	Sequence 30, Appl	182	140.5	5.6	830	3	US-08-872-855-11	Sequence 11, Appl
110	153	6.0	374	4	US-09-489-847-166	Sequence 166, App	183	139.5	5.5	1065	2	US-08-400-159-8	Sequence 8, Appli
111	152.5	6.0	134	4	US-09-621-976-3902	Sequence 3902, Ap	184	138.5	5.5	1148	3	US-08-882-046-4	Sequence 4, Appli
112	151	6.0	260	4	US-09-638-203-3	Sequence 3, Appli	185	138.5	5.5	1148	4	US-09-566-047-4	Sequence 4, Appli
113	150.5	6.0	1193	2	US-08-400-159-10	Sequence 10, Appl	186	138	5.5	202	4	US-10-000-489-62	Sequence 62, Appli
114	150.5	6.0	1193	3	US-08-611-729A-10	Sequence 10, Appl	187	137.5	5.4	272	4	US-09-949-016-9961	Sequence 9961, Ap
115	150.5	6.0	1193	4	US-09-195-524-10	Sequence 10, Appl	188	137.5	5.4	287	3	US-09-111-470-6	Sequence 6, Appli
116	150.5	6.0	2254	4	US-09-949-016-9270	Sequence 9270, Ap	189	137.5	5.4	287	4	US-09-862-802A-6	Sequence 6, Appli
117	150	5.9	2471	1	US-08-185-432-16	Sequence 16, Appl	190	137.5	5.4	454	1	US-07-930-686-10	Sequence 10, Appl
118	150	5.9	2471	1	US-08-083-590A-19	Sequence 19, Appl	191	137.5	5.4	454	2	US-08-460-998-10	Sequence 10, Appl
119	150	5.9	2471	3	US-08-532-384-19	Sequence 19, Appl	192	137.5	5.4	1055	3	US-09-214-378-2	Sequence 2, Appli
120	150	5.9	2471	4	US-08-899-232-1	Sequence 1, Appli	193	137.5	5.4	1055	4	US-09-855-722-2	Sequence 2, Appli
121	150	5.9	2471	4	US-09-121-457-1	Sequence 1, Appli	194	137.5	5.4	1212	3	US-09-214-278-3	Sequence 3, Appli
122	149.5	5.9	382	4	US-09-907-794A-137	Sequence 137, App	195	137.5	5.4	1212	4	US-09-855-722-3	Sequence 3, Appli
123	149.5	5.9	382	4	US-09-905-125A-137	Sequence 137, App	196	137.5	5.4	1238	3	US-09-214-278-5	Sequence 5, Appli
124	149.5	5.9	382	4	US-09-902-775A-137	Sequence 137, App	197	137.5	5.4	1238	4	US-09-855-722-5	Sequence 5, Appli
125	149.5	5.9	382	4	US-09-906-700-137	Sequence 137, App	198	137.5	5.4	1257	3	US-08-611-729A-8	Sequence 8, Appli
126	149.5	5.9	382	4	US-09-903-603A-137	Sequence 137, App	199	137.5	5.4	1257	4	US-09-195-524-8	Sequence 8, Appli
127	149.5	5.9	382	4	US-09-904-920A-137	Sequence 137, App	200	137	5.4	253	4	US-09-541-759-2	Sequence 2, Appli
128	149.5	5.9	382	4	US-09-909-064-137	Sequence 137, App	201	136	5.4	139	4	US-09-535-521-11	Sequence 11, Appl
129	149.5	5.9	382	4	US-09-905-381A-137	Sequence 137, App	202	136	5.4	141	4	US-09-535-521-14	Sequence 14, Appl
130	149.5	5.9	382	4	US-09-906-618-137	Sequence 137, App	203	136	5.4	187	4	US-09-535-521-17	Sequence 17, Appl
131	148.5	5.9	129	3	US-08-722-126A-10	Sequence 10, Appl	204	136	5.4	208	4	US-09-535-521-20	Sequence 20, Appl
132	148.5	5.9	129	5	PCT-US95-04258-10	Sequence 10, Appl	205	136	5.4	292	4	US-09-535-521-2	Sequence 2, Appli
133	148	5.9	192	4	US-09-541-759-5	Sequence 5, Appli	206	136	5.4	292	4	US-09-535-521-5	Sequence 5, Appli
134	146.5	5.8	1479	3	US-08-840-062-2	Sequence 2, Appli	207	136	5.4	1479	3	US-08-840-062-4	Sequence 4, Appli
135	146	5.8	1010	3	US-08-882-046-7	Sequence 7, Appli	208	135.5	5.4	114	6	5514582-14	Patent No. 5514582
136	146	5.8	1010	4	US-09-566-047-7	Sequence 7, Appli	209	135.5	5.4	833	1	US-08-264-534-6	Sequence 6, Appli
137	146	5.8	1036	3	US-09-068-740A-6	Sequence 6, Appli	210	135.5	5.4	833	1	US-08-083-590A-2	Sequence 2, Appli
138	146	5.8	1067	4	US-09-579-536C-18	Sequence 18, Appl	211	135.5	5.4	833	1	US-08-465-500-6	Sequence 6, Appli
139	146	5.8	1187	3	US-09-068-740A-7	Sequence 7, Appli	212	135.5	5.4	833	2	US-08-346-126-6	Sequence 6, Appli
140	146	5.8	1208	4	US-09-199-865-1	Sequence 1, Appli	213	135.5	5.4	833	2	US-08-346-126-6	Sequence 6, Appli
141	146	5.8	1208	4	US-10-213-329-1	Sequence 1, Appli	214	135.5	5.4	833	2	US-08-532-384-2	Sequence 2, Appli
142	146	5.8	1218	2	US-08-400-159-6	Sequence 6, Appli	215	135.5	5.4	833	3	US-08-893-828-6	Sequence 6, Appli
143	146	5.8	1218	3	US-08-611-729A-6	Sequence 6, Appli	216	135.5	5.4	833	3	US-09-191-647-2	Sequence 2, Appli
144	146	5.8	1218	3	US-08-882-046-2	Sequence 2, Appli	217	135	5.3	1525	3	US-09-540-245A-2	Sequence 2, Appli
145	146	5.8	1218	3	US-09-214-278-7	Sequence 7, Appli	218	135	5.3	1525	3	US-09-540-153-2	Sequence 2, Appli
146	146	5.8	1218	3	US-09-068-740A-11	Sequence 11, Appl	219	135	5.3	1525	3	US-09-590-656-2	Sequence 2, Appli
147	146	5.8	1218	4	US-09-855-722-7	Sequence 7, Appli	220	134.5	5.3	704	4	US-09-733-764-2	Sequence 2, Appli
148	146	5.8	1218	4	US-09-566-047-2	Sequence 2, Appli	221	134.5	5.3	977	4	US-09-590-656-1	Sequence 1, Appli
149	146	5.8	1218	4	US-09-917-254-85	Sequence 85, Appl	222	134.5	5.3	977	4	US-09-733-764-1	Sequence 1, Appli
150	146	5.8	1218	4	US-09-195-524-6	Sequence 6, Appli	223	134.5	5.3	977	4	US-08-323-474-2	Sequence 2, Appli
151	146	5.8	1218	4	US-09-579-536C-1	Sequence 1, Appli	224	134.5	5.3	1124	1	US-09-949-016-5946	Sequence 5946, Ap
152	146	5.8	1218	4	US-09-949-016-5902	Sequence 5902, Ap	225	134.5	5.3	1124	5	FCT-US93-06093-2	Sequence 2, Appli
153	146	5.8	1254	4	US-09-949-016-10297	Sequence 10297, A	226	134.5	5.3	1124	5	US-09-191-647-7	Sequence 7, Appli
154	146	5.8	2556	1	US-08-185-432-17	Sequence 17, Appl	227	134.5	5.3	1480	3	US-09-540-245A-7	Sequence 7, Appli
155	146	5.8	2556	4	US-08-899-232-2	Sequence 2, Appli	228	134.5	5.3	1480	3	US-09-540-153-7	Sequence 7, Appli
156	146	5.8	2556	4	US-09-121-457-2	Sequence 2, Appli	229	134.5	5.3	1480	5	FCT-US91-05055-2	Sequence 2, Appli
157	144.5	5.7	1964	3	US-09-467-997-1	Sequence 1, Appli	230	134.5	5.3	1480	5	US-09-541-759-1	Sequence 1, Appli
158	144	5.7	1139	1	US-08-537-210A-4	Sequence 4, Appli	231	133.5	5.3	321	4	US-09-270-767-33762	Sequence 33762, A
159	144	5.7	2556	1	US-08-113-825-4	Sequence 4, Appli	232	133.5	5.3	321	4	US-09-270-767-48979	Sequence 48979, A
160	144	5.7	2556	3	US-08-083-590A-20	Sequence 20, Appl	233	133.5	5.3	328	4	US-09-065-040-8	Sequence 8, Appli
161	144	5.7	2556	3	US-08-532-384-20	Sequence 20, Appl	234	133.5	5.3	832	3	US-08-981-392-6	Sequence 6, Appli
162	143.5	5.7	440	1	US-07-930-686-12	Sequence 12, Appl	235	133.5	5.3	832	3	US-09-908-322-6	Sequence 6, Appli
163	143.5	5.7	440	2	US-08-460-998-12	Sequence 12, Appl	236	133	5.3	115	6	5514582-18	Patent No. 5514582
164	143.5	5.7	1248	3	US-08-882-046-6	Sequence 6, Appli	237	133	5.3	115	6	5514582-18	Patent No. 5514582
165	143.5	5.7	1248	4	US-09-566-047-6	Sequence 6, Appli	238	133	5.3	115	6	5514582-18	Patent No. 5514582
166	142.5	5.6	1480	3	US-09-182-024A-5	Sequence 5, Appli	239	132.5	5.2	148	4	US-09-949-016-6802	Sequence 6802, Ap
167	142	5.6	203	1	US-08-419-414-8	Sequence 8, Appli	240	132.5	5.2	179	1	US-08-650-995-9	Sequence 9, Appli
168	142	5.6	203	1	US-08-614-935-3	Sequence 3, Appli	241	132.5	5.2	179	2	US-08-650-995-9	Sequence 9, Appli
169	142	5.6	203	3	US-09-130-287-3	Sequence 3, Appli	242	132.5	5.2	179	2	US-08-688-342-3	Sequence 3, Appli
170	141	5.6	202	1	US-08-469-486-56	Sequence 56, Appl	243	132.5	5.2	179	3	US-09-113-789-3	Sequence 3, Appli
171	141	5.6	202	2	US-08-469-658-56	Sequence 56, Appl	244	132.5	5.2	179	3	US-09-113-789-9	Sequence 9, Appli
172	141	5.6	233	4	US-09-216-393B-110	Sequence 110, App	245	132.5	5.2	179	4	US-09-919-039-130	Sequence 130, App
173	141	5.6	500	4	US-09-423-753-2	Sequence 2, Appli	246	132.5	5.2	179	4	US-09-949-016-6200	Sequence 6200, Ap

247	132.5	5.2	578	3	US-08-981-392-13	Sequence 13, Appl	320	127.5	5.0	1350	4	US-09-893-238-17	Sequence 17, Appl
248	132.5	5.2	578	4	US-09-908-322-13	Sequence 13, Appl	321	127.5	5.0	1429	3	US-09-245-041-130	Sequence 130, Appl
249	132	5.2	578	5	US-09-535-521-8	Sequence 8, Appl	322	127.5	5.0	1429	3	US-09-358-055B-131	Sequence 131, Appl
250	131.5	5.2	1101	2	US-08-469-537A-96	Sequence 96, Appl	323	127.5	5.0	2787	3	US-09-245-041-15	Sequence 15, Appl
251	131.5	5.2	2199	4	US-08-793-273C-2	Sequence 2, Appl	324	127.5	5.0	2787	4	US-09-358-055B-15	Sequence 15, Appl
252	131.5	5.2	2199	5	PCT-US95-11684-2	Sequence 2, Appl	325	127.5	5.0	2787	4	US-09-893-238-15	Sequence 15, Appl
253	131	5.2	383	1	US-08-597-545-2	Sequence 2, Appl	326	127	5.0	205	1	US-08-450-944-5	Sequence 5, Appl
254	131	5.2	383	1	US-08-457-135-2	Sequence 2, Appl	327	127	5.0	205	5	PCT-US96-07709-5	Sequence 5, Appl
255	131	5.2	721	4	US-09-949-016-11031	Sequence 11031, A	328	127	5.0	220	4	US-09-541-759-3	Sequence 3, Appl
256	131	5.2	1529	3	US-09-182-024A-2	Sequence 2, Appl	329	127	5.0	221	1	US-08-450-944-2	Sequence 2, Appl
257	131	5.2	1529	3	US-09-312-283C-396	Sequence 396, App	330	127	5.0	221	5	PCT-US96-07709-2	Sequence 2, Appl
258	131	5.2	1799	4	US-09-845-583A-6	Sequence 6, Appl	331	127	5.0	292	4	US-08-722-126A-7	Sequence 7, Appl
259	131	5.2	3594	4	US-09-911-842A-4	Sequence 4, Appl	332	126.5	5.0	125	3	US-08-722-126A-7	Sequence 7, Appl
260	131	5.2	3523	4	US-09-341-461-2	Sequence 2, Appl	333	126.5	5.0	125	5	PCT-US95-04258-7	Sequence 7, Appl
261	130.5	5.2	123	4	US-09-535-521-25	Sequence 25, Appl	334	126.5	5.0	289	1	US-08-365-103B-4	Sequence 13, Appl
262	130.5	5.2	1064	1	US-08-537-210A-3	Sequence 3, Appl	335	126.5	5.0	289	4	US-08-365-103B-6	Sequence 6, Appl
263	130.5	5.2	1168	3	US-09-113-825-3	Sequence 3, Appl	336	126.5	5.0	300	1	US-08-365-103B-2	Sequence 2, Appl
264	130.5	5.2	1118	1	US-07-934-393B-2	Sequence 2, Appl	337	126.5	5.0	327	1	US-08-400-159-2	Sequence 2, Appl
265	130.5	5.2	1118	2	US-08-278-089A-2	Sequence 2, Appl	338	126.5	5.0	1404	2	US-08-611-729A-2	Sequence 2, Appl
266	130.5	5.2	1122	2	US-08-838-957A-6	Sequence 6, Appl	339	126.5	5.0	1404	3	US-08-611-729A-2	Sequence 2, Appl
267	130.5	5.2	1122	2	US-08-838-957A-6	Sequence 6, Appl	340	126.5	5.0	1404	4	US-09-135-524-2	Sequence 2, Appl
268	130.5	5.2	2200	4	US-09-796-575-2	Sequence 4, Appl	341	126.5	5.0	4391	4	US-10-006-011A-2	Sequence 2, Appl
269	130	5.1	316	3	US-09-111-470-4	Sequence 4, Appl	342	126	5.0	219	4	US-09-907-794A-377	Sequence 377, App
270	130	5.1	316	4	US-09-862-802A-4	Sequence 4, Appl	343	126	5.0	219	4	US-09-905-125A-377	Sequence 377, App
271	129.5	5.1	125	2	US-07-857-224B-114	Sequence 114, App	344	126	5.0	219	4	US-09-902-775A-377	Sequence 377, App
272	129.5	5.1	137	2	US-07-857-224B-110	Sequence 110, App	345	126	5.0	219	4	US-09-906-700-377	Sequence 377, App
273	129.5	5.1	328	4	US-09-065-040-12	Sequence 12, Appl	346	126	5.0	219	4	US-09-903-603A-377	Sequence 377, App
274	129.5	5.1	379	4	US-09-907-794A-4	Sequence 4, Appl	347	126	5.0	219	4	US-09-904-920A-377	Sequence 377, App
275	129.5	5.1	379	4	US-09-905-125A-4	Sequence 4, Appl	348	126	5.0	219	4	US-09-909-064-377	Sequence 377, App
276	129.5	5.1	379	4	US-09-902-775A-4	Sequence 4, Appl	349	126	5.0	219	4	US-09-905-381A-377	Sequence 377, App
277	129.5	5.1	379	4	US-09-906-618-4	Sequence 4, Appl	350	126	5.0	219	4	US-09-906-618-377	Sequence 377, App
278	129.5	5.1	379	4	US-09-906-700-4	Sequence 4, Appl	351	126	5.0	583	4	US-09-641-612-2	Sequence 2, Appl
279	129.5	5.1	379	4	US-09-903-603A-4	Sequence 4, Appl	352	126	5.0	1487	3	US-08-840-062-7	Sequence 7, Appl
280	129.5	5.1	379	4	US-09-904-920A-4	Sequence 4, Appl	353	125	4.9	1463	1	US-08-220-603A-11	Sequence 11, Appl
281	129.5	5.1	379	4	US-09-909-064-4	Sequence 4, Appl	354	124.5	4.9	1138	1	US-08-323-474-8	Sequence 8, Appl
282	129.5	5.1	379	4	US-09-905-381A-4	Sequence 4, Appl	355	124.5	4.9	1138	2	US-08-469-537A-98	Sequence 98, Appl
283	129.5	5.1	385	1	US-08-597-545-1	Sequence 1, Appl	356	124.5	4.9	1138	2	US-08-220-240A-5	Sequence 5, Appl
284	129.5	5.1	385	1	US-08-457-135-1	Sequence 1, Appl	357	124.5	4.9	1150	4	US-09-949-016-7769	Sequence 7769, Ap
285	129.5	5.1	385	4	US-09-142-027A-10	Sequence 10, Appl	358	124.5	4.9	4544	2	US-08-469-658-52	Sequence 52, Appl
286	129.5	5.1	1810	5	US-08-793-273C-4	Sequence 4, Appl	359	124.5	4.9	177	1	US-08-181-271A-46	Sequence 46, Appl
287	129.5	5.1	1810	5	PCT-US95-11684-4	Sequence 4, Appl	360	124	4.9	177	1	US-08-449-315-46	Sequence 46, Appl
288	129.5	5.1	111	6	5514582-11	Patent No. 5514582	361	124	4.9	177	1	US-08-449-043-46	Sequence 46, Appl
289	129	5.1	111	6	5514582-11	Patent No. 5514582	362	124	4.9	177	1	US-08-456-265A-46	Sequence 46, Appl
290	129	5.1	111	6	5514582-11	Patent No. 5514582	363	124	4.9	177	1	US-08-455-244-46	Sequence 46, Appl
291	129	5.1	299	3	US-09-188-930-192	Sequence 192, App	364	124	4.9	177	1	US-08-455-244-46	Sequence 46, Appl
292	129	5.1	299	3	US-09-188-930-332	Sequence 332, App	365	124	4.9	177	1	US-08-457-364-46	Sequence 46, Appl
293	129	5.1	299	4	US-09-312-283C-192	Sequence 192, App	366	124	4.9	177	1	US-08-457-364-46	Sequence 46, Appl
294	129	5.1	299	4	US-09-312-283C-332	Sequence 332, App	367	124	4.9	177	1	US-08-456-262-46	Sequence 46, Appl
295	129	5.1	1135	2	US-08-469-537A-97	Sequence 97, Appl	368	124	4.9	177	2	US-08-456-262-46	Sequence 46, Appl
296	128.5	5.1	114	6	5514582-13	Patent No. 5514582	369	124	4.9	177	2	US-08-455-736-46	Sequence 46, Appl
297	128.5	5.1	114	6	5514582-13	Patent No. 5514582	370	124	4.9	177	2	US-08-455-736-46	Sequence 46, Appl
298	128.5	5.1	220	4	US-09-541-759-4	Sequence 4, Appl	371	124	4.9	177	2	US-08-971-217-46	Sequence 46, Appl
299	128.5	5.1	1576	4	US-09-562-702A-24	Sequence 24, Appl	372	124	4.9	177	2	US-09-350-600-46	Sequence 46, Appl
300	128.5	5.1	1576	4	US-09-561-818A-24	Sequence 24, Appl	373	124	4.9	177	3	US-09-906-234-46	Sequence 46, Appl
301	128.5	5.1	1584	4	US-09-562-702A-28	Sequence 28, Appl	374	124	4.9	177	4	5514582-8	Patent No. 5514582
302	128.5	5.1	1609	4	US-09-562-702A-22	Sequence 22, Appl	375	123.5	4.9	114	6	5514582-8	Patent No. 5514582
303	128.5	5.1	1609	4	US-09-561-818A-22	Sequence 22, Appl	376	123.5	4.9	114	6	5514582-8	Patent No. 5514582
304	128.5	5.1	1609	4	US-09-538-092-900	Sequence 900, App	377	123.5	4.9	642	3	US-08-872-855-10	Sequence 10, Appl
305	128.5	5.1	1617	4	US-09-562-702A-26	Sequence 26, App	378	123.5	4.9	1068	3	US-08-537-210A-2	Sequence 2, Appl
306	128.5	5.1	3075	2	US-08-460-309-5	Sequence 5, Appl	379	123.5	4.9	1068	3	US-09-113-825-2	Sequence 2, Appl
307	128.5	5.1	3075	2	US-08-125-077-5	Sequence 5, Appl	380	123.5	4.9	1358	1	US-08-404-665-4	Sequence 4, Appl
308	128.5	5.1	3571	4	US-09-911-842A-2	Sequence 2, Appl	381	123.5	4.9	1358	1	US-08-404-671-4	Sequence 4, Appl
309	128.5	5.1	1572	4	US-09-562-702A-32	Sequence 32, Appl	382	123.5	4.9	1358	1	US-08-404-671-4	Sequence 4, Appl
310	128	5.1	1572	4	US-09-561-818A-32	Sequence 32, Appl	383	123	4.9	124	2	US-07-857-224B-113	Sequence 113, App
311	128	5.1	1605	4	US-09-562-702A-20	Sequence 20, Appl	384	123	4.9	144	4	US-09-949-016-10685	Sequence 10685, A
312	128	5.1	1605	4	US-09-561-818A-26	Sequence 26, Appl	385	123	4.9	166	4	US-09-949-016-6286	Sequence 6286, Ap
313	127.5	5.0	1197	4	US-09-602-877A-99	Sequence 99, Appl	386	123	4.9	204	5	PCT-US96-07709-30	Sequence 30, Appl
314	127.5	5.0	1193	4	US-09-949-016-10498	Sequence 10498, A	387	123	4.9	220	5	PCT-US96-07709-33	Sequence 33, Appl
315	127.5	5.0	1198	3	US-09-245-041-131	Sequence 131, App	388	123	4.9	248	5	PCT-US96-07709-25	Sequence 25, Appl
316	127.5	5.0	1198	3	US-09-794-236-3	Sequence 3, Appl	389	123	4.9	678	1	US-08-282-141-2	Sequence 2, Appl
317	127.5	5.0	1198	4	US-09-358-055B-132	Sequence 132, App	390	123	4.9	678	1	US-08-435-434-2	Sequence 2, Appl
318	127.5	5.0	1350	3	US-09-245-041-17	Sequence 17, Appl	391	123	4.9	678	1	US-08-435-436-2	Sequence 2, Appl
319	127.5	5.0	1350	4	US-09-358-055B-17	Sequence 17, Appl	392	123	4.9	678	2	US-08-438-863-2	Sequence 2, Appl

393	123	4.9	678	2	US-08-438-864-2	Sequence 2, Appli	466	113.5	4.5	215	1	US-08-312-870-5	Sequence 5, Appli
394	123	4.9	678	3	US-08-438-862-2	Sequence 2, Appli	467	113.5	4.5	446	1	US-08-307-444A-5	Sequence 5, Appli
395	123	4.9	678	3	US-08-628-747-2	Sequence 2, Appli	468	113.5	4.5	446	1	US-08-587-389-5	Sequence 5, Appli
396	123	4.9	678	3	US-08-402-253-2	Sequence 2, Appli	469	113.5	4.5	456	1	US-08-307-444A-3	Sequence 3, Appli
397	123	4.9	678	3	US-08-443-866B-2	Sequence 2, Appli	470	113.5	4.5	456	1	US-08-307-444A-4	Sequence 3, Appli
398	123	4.9	1935	3	US-09-949-016-10403	Sequence 10403, A	471	113.5	4.5	456	1	US-08-587-389-3	Sequence 4, Appli
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401	122.5	4.8	585	4	US-09-641-612-5	Sequence 5, Appli	474	113.5	4.5	475	1	US-08-307-444A-2	Sequence 1, Appli
402	122.5	4.8	1015	1	US-08-537-210A-1	Sequence 1, Appli	475	113.5	4.5	475	1	US-08-587-389-1	Sequence 2, Appli
403	122.5	4.8	1015	3	US-09-113-825-1	Sequence 1, Appli	476	113.5	4.5	475	1	US-08-587-389-2	Sequence 2, Appli
404	122	4.8	1449	3	US-08-840-062-6	Sequence 6, Appli	477	113.5	4.5	476	1	US-08-014-723-1	Sequence 2, Appli
405	122	4.8	1723	4	US-09-194-612A-31	Sequence 31, Appli	478	113.5	4.5	476	1	US-08-014-723-2	Sequence 2, Appli
406	121.5	4.8	273	3	US-09-111-470-10	Sequence 10, Appli	479	113.5	4.5	476	1	US-08-014-723-18	Sequence 18, Appli
407	121.5	4.8	273	4	US-09-862-802A-10	Sequence 10, Appli	480	113.5	4.5	476	1	US-08-110-011A-1	Sequence 1, Appli
408	121.5	4.8	292	2	US-08-688-342-4	Sequence 4, Appli	481	113.5	4.5	476	1	US-08-110-011A-2	Sequence 2, Appli
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411	121.5	4.8	735	3	US-09-191-647-9	Sequence 9, Appli	484	113.5	4.5	494	1	US-08-014-723-16	Sequence 16, Appli
412	121.5	4.8	735	3	US-09-540-245A-9	Sequence 9, Appli	485	113.5	4.5	494	1	US-08-110-011A-14	Sequence 14, Appli
413	121.5	4.8	735	3	US-09-540-153-9	Sequence 9, Appli	486	113.5	4.5	494	1	US-08-110-011A-16	Sequence 16, Appli
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415	121	4.8	166	2	US-08-729-103-4	Sequence 4, Appli	488	113.5	4.5	497	1	US-09-331-793-4	Sequence 4, Appli
416	121	4.8	174	4	US-09-949-016-10686	Sequence 10686, A	489	113.5	4.5	498	2	US-08-733-564-2	Sequence 2, Appli
417	121	4.8	243	3	US-09-191-647-14	Sequence 14, Appli	490	113.5	4.5	516	4	US-09-509-994-1	Sequence 1, Appli
418	121	4.8	243	3	US-09-540-245A-14	Sequence 14, Appli	491	113.5	4.5	516	4	US-09-509-994-2	Sequence 2, Appli
419	121	4.8	243	3	US-09-540-153-14	Sequence 14, Appli	492	113.5	4.5	575	1	US-08-261-206A-59	Sequence 59, Appli
420	121	4.8	404	3	US-09-517-605-2	Sequence 2, Appli	493	113.5	4.5	575	1	US-08-312-870-1	Sequence 1, Appli
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422	119.5	4.7	114	6	5514582-10	Patent No. 5514582	495	113.5	4.5	575	4	US-10-438-648-2	Sequence 2, Appli
423	119.5	4.7	114	6	5514582-10	Patent No. 5514582	496	113.5	4.5	575	6	5466668-6	Patent No. 5466668
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428	118.5	4.7	1260	3	US-09-245-041-2	Sequence 2, Appli	501	112.5	4.4	110	6	5514582-12	Patent No. 5514582
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441	118.5	4.7	3110	4	US-09-949-016-5937	Sequence 5937, Ap	514	112	4.4	192	4	US-09-908-322-65	Sequence 65, Appli
442	118.5	4.7	3111	2	US-08-460-309-4	Sequence 4, Appli	515	112	4.4	716	4	US-09-312-283C-183	Sequence 183, App
443	118.5	4.7	3111	2	US-08-125-077-4	Sequence 2, Appli	516	112	4.4	771	3	US-09-188-930-183	Sequence 183, App
444	117.5	4.6	652	2	US-08-751-305-2	Sequence 2, Appli	517	111.5	4.4	3647	4	US-09-949-016-10932	Sequence 10932, A
445	117	4.6	214	4	US-10-164-595-38	Sequence 38, Appli	518	111	4.4	816	2	US-08-820-170A-37	Sequence 37, Appli
446	116.5	4.6	994	4	US-09-257-583-15	Sequence 15, Appli	519	111	4.4	816	3	US-09-055-699-37	Sequence 37, Appli
447	116.5	4.6	1854	4	US-09-949-016-11625	Sequence 11625, A	520	111	4.4	816	3	US-09-273-565-37	Sequence 37, Appli
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449	116	4.6	174	1	US-07-781-248A-1	Sequence 1, Appli	522	111	4.4	816	3	US-09-661-468-37	Sequence 37, Appli
450	116	4.6	320	1	US-08-365-103B-10	Sequence 10, Appli	523	111	4.4	816	3	US-09-976-165-37	Sequence 37, Appli
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455	114.5	4.5	1326	4	US-09-949-016-6806	Sequence 6806, Ap	528	110	4.3	157	3	US-08-981-392-68	Sequence 68, Appli
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458	114	4.5	593	1	US-07-668-648-4	Sequence 4, Appli	531	110	4.3	380	4	US-09-205-258-441	Sequence 441, App
459	114	4.5	593	2	US-08-429-998-4	Sequence 4, Appli	532	110	4.3	1171	1	US-08-445-135-1	Sequence 1, Appli
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461	114	4.5	593	5	PCT-US91-02321-4	Sequence 4, Appli	534	109.5	4.3	248	4	US-09-600-932-28	Sequence 28, Appli
462	114	4.5	713	1	US-09-949-016-9775	Sequence 9775, Ap	535	109.5	4.3	284	4	US-09-949-016-6612	Sequence 6612, Ap
463	114	4.5	799	1	US-08-054-077C-2	Sequence 2, Appli	536	109.5	4.3	251	4	US-09-949-016-8481	Sequence 8481, Ap
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465	114	4.5	1587	4	US-09-561-709B-3	Sequence 3, Appli	538	109.5	4.3	259	4	US-09-949-016-9059	Sequence 9059, Ap

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540	109.5	4.3	2211	4	US-10-096-961A-1	Sequence 1, Appli	613	104	4.1	460	6	5270178-16	Patent No. 5270178
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543	109	4.3	593	4	US-09-456-886-17	Sequence 17, Appl	616	104	4.1	908	4	US-08-714-741-44	Sequence 44, Appl
544	109	4.3	593	4	US-09-824-647-17	Sequence 17, Appl	617	104	4.1	1725	4	US-09-560-385A-10	Sequence 10, Appl
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546	109	4.3	3460	3	US-09-334-220-1	Sequence 1, Appli	619	103.5	4.1	1111	1	US-08-317-450B-15	Sequence 15, Appl
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553	107.5	4.3	577	3	US-08-938-085A-29	Sequence 29, Appl	626	103.5	4.1	1193	4	US-09-560-385A-30	Sequence 30, Appl
554	107.5	4.3	577	4	US-10-072-844-29	Sequence 29, Appl	627	103	4.1	122	3	US-08-724-126A-9	Sequence 9, Appli
555	107.5	4.3	577	4	US-10-072-838-29	Sequence 29, Appl	628	103	4.1	122	5	PCT-US95-04258-9	Sequence 9, Appli
556	107.5	4.3	577	4	US-10-072-841A-29	Sequence 29, Appl	629	103	4.1	139	4	US-09-248-796A-15094	Sequence 15094, A
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559	107.5	4.3	758	4	US-09-949-016-8087	Sequence 8087, Ap	632	103	4.1	638	4	US-09-482-273-245	Sequence 245, App
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561	107.5	4.3	769	2	US-08-752-633-1	Sequence 1, Appli	634	103	4.1	788	3	US-08-938-085A-27	Sequence 27, Appl
562	107.5	4.3	769	2	US-08-476-062A-45	Sequence 45, Appl	635	103	4.1	788	4	US-10-072-844-27	Sequence 27, Appl
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565	107.5	4.3	769	4	US-10-072-844-31	Sequence 31, Appl	638	103	4.1	788	4	US-10-072-841A-27	Sequence 27, Appl
566	107.5	4.3	769	4	US-10-072-838-31	Sequence 31, Appl	639	103	4.1	794	4	US-09-949-016-10746	Sequence 10746, A
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568	107.5	4.3	769	4	US-10-219-631A-31	Sequence 31, Appl	641	103	4.1	1147	2	US-08-735-893-3	Sequence 3, Appli
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570	107.5	4.3	769	5	PCT-US96-01314-45	Sequence 45, Appl	643	103	4.1	1165	2	US-08-735-893-2	Sequence 2, Appli
571	107	4.2	718	1	US-08-444-792-4	Sequence 4, Appli	644	102.5	4.1	351	3	US-08-245-041-11	Sequence 11, Appl
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573	107	4.2	788	2	US-07-728-215-32	Sequence 32, Appl	646	102.5	4.1	351	4	US-09-893-238-11	Sequence 11, Appl
574	107	4.2	788	3	US-08-938-085A-32	Sequence 32, Appl	647	102.5	4.1	409	3	US-09-065-872-2	Sequence 2, Appli
575	107	4.2	788	3	US-09-409-648-3	Sequence 3, Appli	648	102.5	4.1	409	4	US-09-667-570A-2	Sequence 2, Appli
576	107	4.2	788	3	US-09-409-648-4	Sequence 4, Appli	649	102.5	4.1	410	3	US-09-065-872-1	Sequence 1, Appli
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578	107	4.2	788	4	US-10-072-838-32	Sequence 32, Appl	651	102.5	4.1	419	1	US-08-295-411-1	Sequence 1, Appli
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583	107	4.2	788	4	US-09-949-016-5901	Sequence 5901, Ap	656	102.5	4.1	419	4	US-10-182-263-4	Sequence 4, Appli
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585	106.5	4.2	655	1	US-08-148-910-12	Sequence 12, Appl	658	102.5	4.1	419	4	US-10-182-263-6	Sequence 6, Appli
586	106.5	4.2	655	1	US-08-448-937A-12	Sequence 12, Appl	659	102.5	4.1	419	5	PCT-US92-10242-1	Sequence 1, Appli
587	106.5	4.2	700	4	US-08-933-711B-6	Sequence 6, Appli	660	102.5	4.1	460	2	US-08-756-506-2	Sequence 2, Appli
588	106.5	4.2	999	4	US-09-747-371-2	Sequence 2, Appli	661	102.5	4.1	460	2	US-08-756-506-4	Sequence 4, Appli
589	106	4.2	72	1	PCT-US96-07709-7	Sequence 7, Appli	662	102.5	4.1	460	6	5270178-13	Patent No. 5270178
590	106	4.2	72	5	US-08-450-944-7	Sequence 7, Appli	663	102.5	4.1	460	6	5270178-14	Patent No. 5270178
591	106	4.2	160	3	US-09-191-647-5	Sequence 5, Appli	664	102.5	4.1	460	6	5270178-15	Patent No. 5270178
592	106	4.2	160	3	US-09-540-245A-5	Sequence 5, Appli	665	102.5	4.1	460	6	5270178-13	Patent No. 5270178
593	106	4.2	160	3	US-09-724-864-39	Sequence 39, Appl	666	102.5	4.1	460	6	5270178-14	Patent No. 5270178
594	106	4.2	492	3	US-09-561-709B-1	Sequence 1, Appli	667	102.5	4.1	460	6	5270178-15	Patent No. 5270178
595	106	4.2	1761	4	US-08-450-482B-117	Sequence 117, App	668	102.5	4.1	461	4	US-10-182-263-2	Sequence 2, Appli
596	105.5	4.2	238	4	US-08-170-290B-54	Sequence 54, Appl	669	102.5	4.1	461	4	US-09-054-272-32	Sequence 32, Appl
597	105.5	4.2	575	1	US-09-845-583A-2	Sequence 2, Appli	670	102.5	4.1	461	4	US-09-949-016-5921	Sequence 5921, App
598	105.5	4.2	3635	4	US-09-370-838-206	Sequence 206, App	671	102.5	4.1	461	6	5225537-2	Patent No. 5225537
599	105	4.2	197	4	US-09-854-133-206	Sequence 206, App	672	102.5	4.1	461	6	5270178-2	Patent No. 5270178
600	105	4.2	197	4	US-08-450-482B-125	Sequence 125, App	673	102.5	4.1	461	6	5270178-17	Patent No. 5270178
601	105	4.2	227	4	US-08-450-482B-125	Sequence 125, App	674	102.5	4.1	461	6	5270178-18	Patent No. 5270178
602	105	4.2	229	4	US-08-450-482B-127	Sequence 127, App	675	102.5	4.1	461	6	5225537-3	Patent No. 5225537
603	105	4.2	961	4	US-09-657-472-4	Sequence 4, Appli	676	102.5	4.1	461	6	5225537-2	Patent No. 5225537
604	105	4.2	961	5	PCT-US93-11725-4	Sequence 4, Appli	677	102.5	4.1	461	6	5270178-2	Patent No. 5270178
605	104.5	4.1	238	3	US-09-111-470-8	Sequence 8, Appli	678	102.5	4.1	461	6	5270178-17	Patent No. 5270178
606	104.5	4.1	238	4	US-09-862-802A-8	Sequence 8, Appli	679	102.5	4.1	461	6	5270178-16	Patent No. 5270178
607	104.5	4.1	1656	4	US-09-949-016-7247	Sequence 7247, Ap	680	102.5	4.1	461	6	5460953-3	Patent No. 5460953
608	104.5	4.1	1798	4	US-09-845-583A-8	Sequence 8, Appli	681	102.5	4.1	798	2	US-07-728-215-30	Sequence 30, Appl
609	104.5	4.1	1798	4	US-09-317-254-87	Sequence 87, Appl	682	102.5	4.1	798	3	US-08-938-085A-30	Sequence 30, Appl
610	104.5	4.1	1821	4	US-09-949-016-5938	Sequence 5938, Ap	683	102.5	4.1	798	4	US-10-072-844-30	Sequence 30, Appl
611	104	4.1	194	3	US-09-188-930-335	Sequence 335, App	684	102.5	4.1	798	4	US-10-072-838-30	Sequence 30, Appl



685	102.5	4.1	798	4	US-10-072-841A-30	Sequence 30, Appl	758	99	3.9	80	3	US-09-051-624A-2	Sequence 2, Appl
686	102.5	4.1	798	4	US-10-219-631A-30	Sequence 30, Appl	759	99	3.9	120	1	US-08-274-661B-37	Sequence 37, Appl
687	102.5	4.1	798	4	US-09-949-016-6193	Sequence 6193, Ap	760	99	3.9	177	2	US-08-465-794-17	Sequence 17, Appl
688	102.5	4.1	2732	4	US-09-086-436-30	Sequence 7, Appl	761	99	3.9	177	3	US-09-049-813-17	Sequence 17, Appl
689	102	4.0	156	4	US-09-257-583-7	Sequence 7, Appl	762	99	3.9	199	5	PCT-US93-10418-4	Sequence 4, Appl
690	102	4.0	572	6	5256770-7	Patent No. 5256770	763	99	3.9	258	4	US-09-270-767-43579	Sequence 43579, A
691	102	4.0	572	6	5256770-7	Patent No. 5256770	764	99	3.9	321	4	US-09-270-767-45035	Sequence 45035, A
692	102	4.0	790	4	US-09-949-016-7017	Sequence 7017, Ap	765	99	3.9	321	4	US-08-365-470-7	Sequence 3, Appl
693	102	4.0	790	4	US-09-949-016-8169	Sequence 8169, Ap	766	99	3.9	610	3	US-09-209-668-19	Sequence 19, Appl
694	102	4.0	790	4	US-09-949-016-8170	Sequence 8170, Ap	767	99	3.9	610	3	US-09-009-490A-89	Sequence 89, Appl
695	102	4.0	1417	3	US-08-900-230-3	Sequence 3, Appl	768	99	3.9	610	4	US-09-949-016-5942	Sequence 5942, Ap
696	102	4.0	5405	3	US-08-718-388-9	Sequence 9, Appl	769	99	3.9	610	6	5217870-2	Patent No. 5217870
697	101.5	4.0	448	2	US-08-884-072-1	Sequence 1, Appl	770	99	3.9	610	6	5217870-2	Patent No. 5217870
698	101.5	4.0	448	3	US-09-212-168-1	Sequence 1, Appl	771	99	3.9	696	4	US-08-933-711B-7	Sequence 7, Appl
699	101.5	4.0	448	4	US-09-409-096-4	Sequence 4, Appl	772	99	3.9	696	4	US-09-538-052-650	Sequence 5, Appl
700	101.5	4.0	504	4	US-09-949-016-7403	Sequence 7403, Ap	773	99	3.9	4302	3	US-08-658-136-5	Sequence 5, Appl
701	101.5	4.0	663	4	US-08-933-711B-16	Sequence 16, Appl	774	98.5	3.9	78	1	US-08-264-534-2	Sequence 2, Appl
702	101	4.0	320	3	US-09-183-861-22	Sequence 22, Appl	775	98.5	3.9	78	1	US-08-083-590A-15	Sequence 15, Appl
703	101	4.0	320	3	US-09-183-861-55	Sequence 55, Appl	776	98.5	3.9	78	1	US-08-465-500-2	Sequence 2, Appl
704	101	4.0	320	3	US-09-022-765-22	Sequence 22, Appl	777	98.5	3.9	78	2	US-08-346-126-2	Sequence 2, Appl
705	101	4.0	320	3	US-09-022-765-55	Sequence 55, Appl	778	98.5	3.9	78	2	US-08-346-128-2	Sequence 2, Appl
706	101	4.0	320	4	US-09-551-974A-22	Sequence 22, Appl	779	98.5	3.9	78	3	US-08-532-384-15	Sequence 15, Appl
707	101	4.0	320	4	US-09-551-974A-55	Sequence 55, Appl	780	98.5	3.9	78	3	US-08-893-828-2	Sequence 2, Appl
708	101	4.0	320	4	US-09-565-501A-22	Sequence 22, Appl	781	98.5	3.9	174	2	US-08-401-530A-6	Sequence 6, Appl
709	101	4.0	320	4	US-09-565-501A-55	Sequence 55, Appl	782	98.5	3.9	174	2	US-08-709-662-6	Sequence 6, Appl
710	101	4.0	320	4	US-09-639-206A-22	Sequence 22, Appl	783	98.5	3.9	234	3	US-09-040-483-5	Sequence 5, Appl
711	101	4.0	320	4	US-09-639-206A-55	Sequence 55, Appl	784	98.5	3.9	234	4	US-08-740-036-5	Sequence 5, Appl
712	101	4.0	320	4	US-09-874-923-22	Sequence 22, Appl	785	98.5	3.9	314	2	US-08-460-309-19	Sequence 19, Appl
713	101	4.0	320	4	US-09-874-923-55	Sequence 55, Appl	786	98.5	3.9	314	2	US-08-125-077-19	Sequence 19, Appl
714	101	4.0	320	4	US-08-798-841-22	Sequence 22, Appl	787	98.5	3.9	325	4	US-09-949-016-11467	Sequence 11467, A
715	101	4.0	673	1	US-08-282-141-3	Sequence 3, Appl	788	98.5	3.9	325	4	US-09-949-016-11468	Sequence 11468, A
716	101	4.0	673	1	US-08-435-434-1	Sequence 1, Appl	789	98.5	3.9	352	4	US-09-949-016-8273	Sequence 8273, Ap
717	101	4.0	673	1	US-08-435-436-1	Sequence 1, Appl	790	98.5	3.9	352	4	US-09-949-016-8274	Sequence 8274, Ap
718	101	4.0	673	2	US-08-438-863-1	Sequence 1, Appl	791	98.5	3.9	353	4	US-09-482-273-243	Sequence 243, Ap
719	101	4.0	673	2	US-08-438-864-1	Sequence 1, Appl	792	98.5	3.9	387	2	US-08-884-072-5	Sequence 5, Appl
720	101	4.0	673	3	US-08-628-747-1	Sequence 1, Appl	793	98.5	3.9	387	2	US-08-833-963C-9	Sequence 9, Appl
721	101	4.0	673	3	US-08-628-747-1	Sequence 1, Appl	794	98.5	3.9	387	3	US-08-980-514-3	Sequence 3, Appl
722	101	4.0	673	3	US-08-402-253-1	Sequence 1, Appl	795	98.5	3.9	387	3	US-09-212-168-5	Sequence 5, Appl
723	101	4.0	673	3	US-08-443-868B-1	Sequence 1, Appl	796	98.5	3.9	387	4	US-09-409-036-2	Sequence 2, Appl
724	101	4.0	676	3	US-08-630-172-10	Sequence 10, Appl	797	98.5	3.9	493	4	US-09-322-357-1	Sequence 1, Appl
725	101	4.0	676	3	US-09-375-419-10	Sequence 10, Appl	798	98.5	3.9	857	2	US-08-659-251-2	Sequence 2, Appl
726	101	4.0	709	4	US-09-874-923-121	Sequence 121, App	799	98.5	3.9	857	3	US-09-256-490-2	Sequence 2, Appl
727	101	4.0	781	4	US-09-949-016-6959	Sequence 6959, Ap	800	98.5	3.9	857	5	PCT-US96-11445-2	Sequence 2, Appl
728	101	4.0	970	4	US-09-949-016-10131	Sequence 10131, A	801	98	3.9	117	6	5514582-15	Patent No. 5514582
729	101	4.0	1106	4	US-09-949-016-9626	Sequence 9626, Ap	802	98	3.9	117	6	5514582-15	Patent No. 5514582
730	101	4.0	4302	3	US-09-052-463-8	Sequence 8, Appl	803	98	3.9	448	4	US-09-949-016-10130	Sequence 2, Appl
731	101	4.0	4302	3	US-08-422-582-8	Sequence 8, Appl	804	97.5	3.9	277	4	US-09-600-932-2	Sequence 2, Appl
732	101	4.0	4302	4	US-09-052-262-8	Sequence 8, Appl	805	97.5	3.9	638	2	US-08-897-443-1	Sequence 1, Appl
733	101	4.0	4302	2	US-08-460-751-2	Sequence 2, Appl	806	97.5	3.9	677	4	US-09-949-016-11369	Sequence 11369, A
734	101	4.0	4303	4	US-09-479-467A-2	Sequence 2, Appl	807	97.5	3.9	677	4	US-09-949-016-11370	Sequence 11370, A
735	101	4.0	4339	3	US-09-052-463-6	Sequence 6, Appl	808	97.5	3.9	677	4	US-09-949-016-11371	Sequence 11371, A
736	101	4.0	4339	4	US-08-422-582-6	Sequence 6, Appl	809	97.5	3.9	677	4	US-09-949-016-11372	Sequence 11372, A
737	100.5	4.0	4339	4	US-09-052-262-6	Sequence 6, Appl	810	97.5	3.9	963	4	US-09-949-016-11519	Sequence 11519, A
738	100.5	4.0	1461	4	US-10-142-231-86	Sequence 86, Appl	811	97.5	3.9	963	4	US-09-949-016-11520	Sequence 11520, A
739	100	4.0	243	2	US-08-460-309-15	Sequence 15, Appl	812	97.5	3.9	1073	4	US-09-949-016-9771	Sequence 9771, Ap
740	100	4.0	243	2	US-08-125-077-15	Sequence 15, Appl	813	97.5	3.9	2088	4	US-09-548-372D-13	Sequence 13, Appl
741	100	4.0	244	3	US-08-772-440-2	Sequence 2, Appl	814	97.5	3.9	2088	4	US-09-548-367D-13	Sequence 13, Appl
742	100	4.0	592	4	US-08-933-711B-18	Sequence 18, Appl	815	97.5	3.9	2088	4	US-09-551-853D-13	Sequence 13, Appl
743	100	4.0	871	3	US-09-245-041-19	Sequence 19, Appl	816	97.5	3.9	2088	4	US-09-548-376D-13	Sequence 13, Appl
744	100	4.0	871	4	US-09-358-055B-19	Sequence 19, Appl	817	97.5	3.9	2088	4	US-09-548-373D-13	Sequence 13, Appl
745	100	4.0	871	4	US-09-893-238-19	Sequence 19, Appl	818	97.5	3.9	2088	4	US-09-548-366F-13	Sequence 13, Appl
746	100	4.0	1594	4	US-09-560-385A-12	Sequence 12, Appl	819	97.5	3.9	2088	4	US-09-548-368D-13	Sequence 13, Appl
747	99.5	3.9	154	3	US-09-191-647-10	Sequence 10, Appl	820	97	3.8	110	6	5514582-9	Patent No. 5514582
748	99.5	3.9	154	3	US-09-540-245A-10	Sequence 10, Appl	821	97	3.8	110	6	5514582-9	Patent No. 5514582
749	99.5	3.9	154	3	US-09-540-153-10	Sequence 10, Appl	822	97	3.8	155	4	US-09-898-554-18	Sequence 18, Appl
750	99.5	3.9	238	4	US-09-004-730A-112	Sequence 112, App	823	97	3.8	201	4	US-09-898-554-16	Sequence 16, Appl
751	99.5	3.9	238	4	US-08-981-799A-112	Sequence 112, App	824	97	3.8	363	4	US-09-898-554-20	Sequence 20, Appl
752	99.5	3.9	242	4	US-09-004-730A-119	Sequence 119, App	825	97	3.8	787	4	US-10-000-489-70	Sequence 70, Appl
753	99.5	3.9	264	4	US-08-981-799A-119	Sequence 119, App	826	97	3.8	799	2	US-08-525-940-23	Sequence 23, Appl
754	99.5	3.9	264	4	US-09-004-730A-115	Sequence 115, App	827	97	3.8	799	2	US-08-976-838-23	Sequence 23, Appl
755	99.5	3.9	264	4	US-08-981-799A-115	Sequence 115, App	828	97	3.8	881	2	US-08-525-940-21	Sequence 21, Appl
756	99.5	3.9	2476	2	US-08-276-967-2	Sequence 2, Appl	829	97	3.8	881	2	US-08-976-838-21	Sequence 21, Appl
757	99	3.9	80	3	US-08-663-191A-3	Sequence 3, Appl	830	97	3.8	915	2	US-08-525-940-18	Sequence 18, Appl



831	97	3.8	915	2	US-08-976-838-18	Sequence 18, Appl	904	95.5	3.8	846	4	US-10-072-838-33	Sequence 33, Appl
832	97	3.8	915	3	US-09-214-558B-2	Sequence 2, Appli	905	95.5	3.8	846	4	US-10-072-841A-33	Sequence 33, Appl
833	97	3.8	915	3	US-09-214-558B-7	Sequence 7, Appli	906	95.5	3.8	846	4	US-10-219-631A-33	Sequence 33, Appl
834	97	3.8	1436	4	US-09-578-063-78	Sequence 78, Appl	907	95.5	3.8	910	4	US-09-902-540-10793	Sequence 10793, A
835	97	3.8	1586	4	US-09-060-292A-44	Sequence 44, Appl	908	95.5	3.8	956	4	US-09-949-016-6215	Sequence 6215, Ap
836	97	3.8	1586	4	US-09-402-923A-44	Sequence 44, Appl	909	95.5	3.8	1049	4	US-09-538-092-72	Sequence 72, Appl
837	97	3.8	1614	4	US-09-060-299-42	Sequence 42, Appl	910	95.5	3.8	2594	3	US-08-718-388-7	Sequence 7, Appl
838	97	3.8	1614	4	US-09-402-923A-42	Sequence 42, Appl	911	95.5	3.8	5179	4	US-09-538-092-1258	Sequence 1258, Ap
839	97	3.8	1882	3	US-09-369-364A-13	Sequence 13, Appl	912	95	3.8	198	4	US-09-902-540-15333	Sequence 15333, A
840	96.5	3.8	247	4	US-09-270-767-45893	Sequence 45893, A	913	95	3.8	241	2	US-08-460-309-17	Sequence 17, Appl
841	96.5	3.8	291	2	US-08-688-342-5	Sequence 5, Appli	914	95	3.8	241	2	US-08-125-077-17	Sequence 17, Appl
842	96.5	3.8	291	3	US-09-113-780-5	Sequence 5, Appli	915	95	3.8	350	2	US-08-999-811-4	Sequence 4, Appli
843	96.5	3.8	291	3	US-09-111-470-5	Sequence 5, Appli	916	95	3.8	350	2	US-08-824-996-2	Sequence 2, Appli
844	96.5	3.8	291	4	US-09-862-802A-5	Sequence 5, Appli	917	95	3.8	350	3	US-09-042-105-4	Sequence 4, Appli
845	96.5	3.8	296	4	US-09-489-847-293	Sequence 293, App	918	95	3.8	350	3	US-08-585-895-33	Sequence 33, Appl
846	96.5	3.8	311	4	US-09-949-016-9962	Sequence 9962, Ap	919	95	3.8	350	3	US-10-084-488-4	Sequence 4, Appli
847	96.5	3.8	335	4	US-09-312-283C-186	Sequence 186, App	920	95	3.8	350	4	US-08-999-811-2	Sequence 2, Appli
848	96.5	3.8	347	4	US-09-636-215-590	Sequence 590, App	921	95	3.8	419	2	US-09-042-105-2	Sequence 2, Appli
849	96.5	3.8	347	4	US-09-685-166A-590	Sequence 590, App	922	95	3.8	419	3	US-09-042-105-18	Sequence 18, Appl
850	96.5	3.8	347	4	US-09-679-426-590	Sequence 590, App	923	95	3.8	419	3	US-08-795-430-8	Sequence 8, Appli
851	96.5	3.8	347	4	US-09-759-143-590	Sequence 590, App	924	95	3.8	419	3	US-08-510-133A-35	Sequence 35, Appl
852	96.5	3.8	347	4	US-09-651-236-590	Sequence 590, App	925	95	3.8	419	3	US-09-355-700-8	Sequence 8, Appli
853	96.5	3.8	374	2	US-08-820-170A-25	Sequence 25, Appl	926	95	3.8	419	3	US-09-355-700-58	Sequence 58, Appl
854	96.5	3.8	374	3	US-09-055-699-25	Sequence 25, Appl	927	95	3.8	419	3	US-08-601-132-33	Sequence 33, Appl
855	96.5	3.8	374	3	US-09-273-565-25	Sequence 25, Appl	928	95	3.8	419	4	US-08-706-054A-3	Sequence 3, Appli
856	96.5	3.8	374	3	US-09-565-538-25	Sequence 25, Appl	929	95	3.8	419	4	US-08-313-289-3	Sequence 3, Appli
857	96.5	3.8	374	3	US-09-661-468-25	Sequence 25, Appl	930	95	3.8	419	4	US-08-465-968-2	Sequence 2, Appli
858	96.5	3.8	374	4	US-09-976-165-25	Sequence 25, Appl	931	95	3.8	419	4	US-08-671-573B-33	Sequence 33, Appl
859	96.5	3.8	374	4	US-09-227-853A-2	Sequence 2, Appli	932	95	3.8	419	4	US-09-438-046-14	Sequence 14, Appl
860	96.5	3.8	374	5	PCT-US95-06385-2	Sequence 2, Appli	933	95	3.8	419	4	US-09-631-092B-33	Sequence 33, Appl
861	96.5	3.8	482	4	US-08-933-711B-8	Sequence 8, Appli	934	95	3.8	419	4	US-10-084-488-2	Sequence 2, Appli
862	96.5	3.8	505	1	US-08-220-603A-10	Sequence 10, Appl	935	95	3.8	419	4	US-10-084-488-18	Sequence 18, Appl
863	96.5	3.8	657	4	US-09-949-016-11365	Sequence 11365, A	936	95	3.8	419	4	US-09-375-248-4	Sequence 4, Appli
864	96.5	3.8	657	4	US-09-949-016-11366	Sequence 11366, A	937	95	3.8	419	4	US-09-468-647A-108	Sequence 108, App
865	96.5	3.8	657	4	US-09-949-016-11367	Sequence 11367, A	938	95	3.8	419	4	US-09-534-376A-8	Sequence 8, Appli
866	96.5	3.8	657	4	US-09-949-016-11368	Sequence 11368, A	939	95	3.8	419	4	US-09-534-376A-58	Sequence 58, Appl
867	96.5	3.8	1388	4	US-09-463-048A-6	Sequence 6, Appli	940	95	3.8	419	4	US-09-169-079-21	Sequence 21, Appl
868	96.5	3.8	1497	4	US-09-060-854B-2	Sequence 2, Appli	941	95	3.8	419	4	US-09-214-982-29	Sequence 29, Appl
869	96.5	3.8	1497	4	US-09-529-904-3	Sequence 3, Appli	942	95	3.8	419	5	PCT-US96-09001-2	Sequence 2, Appli
870	96.5	3.8	1621	4	US-09-949-016-8450	Sequence 8450, Ap	943	95	3.8	465	2	US-08-162-402B-8	Sequence 8, Appli
871	96	3.8	120	6	5447911-1	Patent No. 5447911	944	94.5	3.8	486	4	US-09-976-594-278	Sequence 278, App
872	96	3.8	120	6	5447911-1	Patent No. 5447911	945	94.5	3.8	486	4	US-09-949-016-6216	Sequence 6216, Ap
873	96	3.8	199	3	US-08-772-440-13	Sequence 13, Appl	946	95	3.8	507	4	US-09-949-016-9878	Sequence 9878, Ap
874	96	3.8	237	3	US-09-111-470-2	Sequence 2, Appli	947	95	3.8	136	6	5189019-6	Patent No. 5189019
875	96	3.8	237	3	US-09-862-802A-2	Sequence 2, Appli	948	95	3.7	136	6	5189019-6	Patent No. 5189019
876	96	3.8	237	3	US-09-422-869-18	Sequence 18, Appl	949	95	3.7	175	2	US-08-401-530A-3	Sequence 3, Appli
877	96	3.8	915	4	US-09-907-794A-34	Sequence 34, Appl	950	94.5	3.7	175	2	US-08-709-662-3	Sequence 3, Appli
878	96	3.8	915	4	US-09-905-125A-34	Sequence 34, Appl	951	94.5	3.7	248	4	US-08-450-482B-115	Sequence 115, App
879	96	3.8	915	4	US-09-902-775A-34	Sequence 34, Appl	952	94.5	3.7	248	4	US-08-480-229C-14	Sequence 14, Appl
880	96	3.8	915	4	US-09-906-700-34	Sequence 34, Appl	953	94.5	3.7	513	2	US-08-659-235C-14	Sequence 14, Appl
881	96	3.8	915	4	US-09-903-603A-34	Sequence 34, Appl	954	94.5	3.7	513	2	US-08-659-235C-14	Sequence 14, Appl
882	96	3.8	915	4	US-09-904-920A-34	Sequence 34, Appl	955	94.5	3.7	584	4	US-09-949-016-10340	Sequence 10340, A
883	96	3.8	915	4	US-09-909-064-34	Sequence 34, Appl	956	94.5	3.7	584	4	US-09-949-016-10341	Sequence 10341, A
884	96	3.8	915	4	US-09-905-381A-34	Sequence 34, Appl	957	94.5	3.7	119	1	US-08-340-539A-16	Sequence 16, Appl
885	96	3.8	915	4	US-09-906-618-34	Sequence 34, Appl	958	94	3.7	165	4	US-09-706-722A-3	Sequence 3, Appli
886	96	3.8	1725	4	US-09-562-702A-20	Sequence 20, Appl	959	94	3.7	240	4	US-10-008-011A-5	Sequence 5, Appli
887	96	3.8	1725	4	US-09-561-818A-20	Sequence 20, Appl	960	94	3.7	240	4	US-10-008-011A-5	Sequence 5, Appli
888	96	3.8	1786	4	US-09-562-702A-18	Sequence 18, Appl	961	94	3.7	686	3	US-09-358-055B-13	Sequence 13, Appl
889	96	3.8	1786	4	US-09-561-818A-18	Sequence 18, Appl	962	94	3.7	686	3	US-09-893-238-13	Sequence 13, Appl
890	96	3.8	2362	4	US-09-949-016-8985	Sequence 8985, Ap	963	94	3.7	686	4	US-09-252-991A-18234	Sequence 18234, A
891	95.5	3.8	123	6	5514582-19	Patent No. 5514582	964	94	3.7	1142	4	US-09-560-385A-16	Sequence 16, Appl
892	95.5	3.8	123	6	5514582-19	Patent No. 5514582	965	94	3.7	1153	4	US-09-560-385A-16	Sequence 16, Appl
893	95.5	3.8	126	3	US-08-772-440-10	Sequence 10, Appl	966	94	3.7	1170	4	US-09-561-709B-12	Sequence 12, Appl
894	95.5	3.8	161	3	US-09-011-735-6	Sequence 6, Appli	967	94	3.7	1170	4	US-09-560-385A-14	Sequence 14, Appl
895	95.5	3.8	176	3	US-08-772-440-8	Sequence 8, Appli	968	94	3.7	1196	2	US-08-144-121-4	Sequence 4, Appli
896	95.5	3.8	180	3	US-08-772-440-31	Sequence 31, Appl	969	94	3.7	1196	2	US-08-735-893-4	Sequence 4, Appli
897	95.5	3.8	317	3	US-09-383-586-20	Sequence 20, Appl	970	94	3.7	1765	4	US-09-562-702A-16	Sequence 16, Appl
898	95.5	3.8	317	3	US-09-823-038A-20	Sequence 20, Appl	971	94	3.7	1765	4	US-09-561-818A-16	Sequence 16, Appl
899	95.5	3.8	351	3	US-09-011-735-1	Sequence 1, Appli	972	94	3.7	1786	4	US-09-562-702A-14	Sequence 14, Appl
900	95.5	3.8	351	3	US-09-029-156-1	Sequence 1, Appli	973	94	3.7	1786	4	US-09-561-818A-14	Sequence 14, Appl
901	95.5	3.8	846	2	US-07-728-215-33	Sequence 33, Appl	974	94	3.7	1786	4	US-09-561-709B-9	Sequence 9, Appli
902	95.5	3.8	846	3	US-08-538-085A-33	Sequence 33, Appl	975	94	3.7	1786	4	US-09-538-092-869	Sequence 869, App
903	95.5	3.8	846	4	US-10-072-844-33	Sequence 33, Appl	976	93.5	3.7	461	3	US-08-742-877-2	Sequence 2, Appli

977	93.5	3.7	580	3	US-08-482-677-10	Sequence 10, Appl	1050	91.5	3.6	180	4	US-09-510-238A-286	Sequence 286, App
978	93.5	3.7	580	4	US-10-033-174-10	Sequence 10, Appl	1051	91.5	3.6	192	4	US-09-252-991A-22703	Sequence 22703, A
979	93.5	3.7	589	1	US-07-668-648-6	Sequence 6, Appl	1052	91.5	3.6	252	4	US-09-949-016-8814	Sequence 8814, Ap
980	93.5	3.7	589	2	US-08-429-998-6	Sequence 6, Appl	1053	91.5	3.6	273	1	US-08-152-019A-30	Sequence 30, Appl
981	93.5	3.7	589	3	US-08-431-333-6	Sequence 6, Appl	1054	91.5	3.6	380	3	US-08-468-846-2	Sequence 2, Appl
982	93.5	3.7	589	3	US-08-991-862-2	Sequence 2, Appl	1055	91.5	3.6	380	3	US-08-915-096A-2	Sequence 2, Appl
983	93.5	3.7	589	4	US-09-813-156-2	Sequence 2, Appl	1056	91.5	3.6	384	4	US-09-949-016-9661	Sequence 9661, Ap
984	93.5	3.7	589	4	US-09-456-886-2	Sequence 2, Appl	1057	91.5	3.6	415	1	US-08-073-531B-1	Sequence 1, Appl
985	93.5	3.7	589	4	US-09-824-647-2	Sequence 2, Appl	1058	91.5	3.6	415	1	US-08-295-411-2	Sequence 2, Appl
986	93.5	3.7	589	5	PCT-US91-02321-6	Sequence 6, Appl	1059	91.5	3.6	415	2	US-08-935-471-2	Sequence 2, Appl
987	93.5	3.7	1083	1	US-08-296-014A-2	Sequence 2, Appl	1060	91.5	3.6	415	2	US-08-766-288-1	Sequence 1, Appl
988	93.5	3.7	1083	2	US-08-596-405-2	Sequence 2, Appl	1061	91.5	3.6	415	5	PCT-US92-10242-2	Sequence 2, Appl
989	93.5	3.7	1083	2	US-08-877-620-2	Sequence 2, Appl	1062	91.5	3.6	443	2	US-08-833-963C-2	Sequence 2, Appl
990	93.5	3.7	1083	4	US-09-287-368-2	Sequence 2, Appl	1063	91.5	3.6	443	3	US-08-980-514-1	Sequence 1, Appl
991	93.5	3.7	1083	4	US-09-626-795-2	Sequence 2, Appl	1064	91.5	3.6	465	4	US-09-949-016-7792	Sequence 7792, App
992	93.5	3.7	1342	4	US-09-561-709B-13	Sequence 13, Appl	1065	91.5	3.6	1010	4	US-09-118-276-12	Sequence 12, Appl
993	93.5	3.7	1317	4	US-09-627-650B-5	Sequence 5, Appl	1066	91.5	3.6	1101	4	US-09-561-709B-5	Sequence 5, Appl
994	93.5	3.7	1317	4	US-09-436-063C-5	Sequence 5, Appl	1067	91	3.6	79	4	US-10-006-011A-7	Sequence 7, Appl
995	93.5	3.7	2813	4	US-09-381-261A-1	Sequence 1, Appl	1068	91	3.6	234	4	US-09-902-540-15175	Sequence 15175, A
996	93.5	3.7	4654	3	US-08-476-515A-84	Sequence 84, Appl	1069	91	3.6	247	4	US-09-898-554-14	Sequence 14, Appl
997	93.5	3.7	4655	3	US-08-652-877-84	Sequence 84, Appl	1070	91	3.6	253	4	US-09-949-016-10527	Sequence 10527, A
998	93.5	3.7	4655	3	US-08-652-877-86	Sequence 86, Appl	1071	91	3.6	418	3	US-08-795-430-13	Sequence 13, Appl
999	93.5	3.7	4655	3	US-08-652-877-88	Sequence 88, Appl	1072	91	3.6	418	3	US-09-355-700-13	Sequence 13, Appl
1000	93.5	3.7	4655	3	US-08-652-877-90	Sequence 90, Appl	1073	91	3.6	418	4	US-09-534-376A-13	Sequence 13, Appl
1001	93	3.7	120	1	US-08-274-661B-36	Sequence 36, Appl	1074	91	3.6	995	4	US-08-673-789-5	Sequence 5, Appl
1002	93	3.7	134	3	US-08-543-246B-20	Sequence 20, Appl	1075	91	3.6	997	4	US-09-747-371-3	Sequence 3, Appl
1003	93	3.7	216	3	US-08-543-246B-20	Sequence 20, Appl	1076	91	3.6	1155	4	US-09-560-385A-24	Sequence 24, Appl
1004	93	3.7	216	3	US-08-543-246B-24	Sequence 24, Appl	1077	91	3.6	1167	4	US-09-560-385A-20	Sequence 20, Appl
1005	93	3.7	589	1	US-07-668-648-2	Sequence 2, Appl	1078	91	3.6	1172	4	US-09-919-172-16	Sequence 16, Appl
1006	93	3.7	589	2	US-08-429-998-2	Sequence 2, Appl	1079	91	3.6	1174	4	US-09-560-385A-22	Sequence 22, Appl
1007	93	3.7	589	2	US-08-431-333-2	Sequence 2, Appl	1080	91	3.6	1186	4	US-09-560-385A-18	Sequence 18, Appl
1008	93	3.7	589	5	PCT-US91-02321-2	Sequence 2, Appl	1081	91	3.6	1345	2	US-08-977-767-3	Sequence 3, Appl
1009	93	3.7	750	4	US-09-270-767-42975	Sequence 42975, A	1082	91	3.6	3461	3	US-09-334-220-2	Sequence 2, Appl
1010	93	3.7	1171	4	US-09-560-385A-36	Sequence 36, Appl	1083	90.5	3.6	77	4	US-09-531-056A-22	Sequence 22, Appl
1011	93	3.7	1192	4	US-09-560-385A-34	Sequence 34, Appl	1084	90.5	3.6	230	2	US-08-471-371-2	Sequence 2, Appl
1012	93	3.7	2050	2	US-08-347-594A-2	Sequence 2, Appl	1085	90.5	3.6	559	4	US-10-136-227A-28	Sequence 28, Appl
1013	92.5	3.7	104	3	US-09-191-647-13	Sequence 13, Appl	1086	90.5	3.6	559	4	US-09-981-649A-28	Sequence 28, Appl
1014	92.5	3.7	104	3	US-09-540-245A-13	Sequence 13, Appl	1087	90.5	3.6	620	1	US-08-325-071-65	Sequence 65, Appl
1015	92.5	3.7	104	3	US-09-540-153-13	Sequence 13, Appl	1088	90.5	3.6	620	3	US-08-461-004A-65	Sequence 65, Appl
1016	92.5	3.7	248	4	US-09-252-991A-17358	Sequence 17358, A	1089	90.5	3.6	943	3	US-08-476-515A-12	Sequence 12, Appl
1017	92.5	3.7	271	1	US-08-152-019A-28	Sequence 28, Appl	1090	90.5	3.6	944	3	US-08-652-877-12	Sequence 12, Appl
1018	92.5	3.7	415	4	US-09-118-748-2	Sequence 2, Appl	1091	90.5	3.6	1019	4	US-09-902-540-15897	Sequence 15897, A
1019	92.5	3.7	457	4	US-09-774-639-108	Sequence 108, App	1092	90.5	3.6	1104	2	US-08-327-832-5	Sequence 5, Appl
1020	92.5	3.7	461	3	US-09-053-871A-21	Sequence 21, Appl	1093	90.5	3.6	1104	2	US-08-828-584-5	Sequence 5, Appl
1021	92.5	3.7	461	4	US-10-133-907-5	Sequence 5, Appl	1094	90.5	3.6	1242	4	US-09-488-270A-2	Sequence 2, Appl
1022	92.5	3.7	461	6	5521070-2	Patent No. 5521070	1095	90	3.6	255	4	US-10-006-011A-8	Sequence 8, Appl
1023	92.5	3.7	461	6	5521070-2	Patent No. 5521070	1096	90	3.6	284	4	US-10-006-011A-9	Sequence 9, Appl
1024	92.5	3.7	480	4	US-09-949-016-11123	Sequence 11123, A	1097	90	3.6	349	3	US-09-006-353A-13	Sequence 13, Appl
1025	92.5	3.7	769	1	US-08-454-455-6	Sequence 6, Appl	1098	90	3.6	349	3	US-09-573-986-13	Sequence 13, Appl
1026	92.5	3.7	831	4	US-09-949-016-10169	Sequence 10169, A	1099	90	3.6	357	4	US-09-949-016-9074	Sequence 9074, Ap
1027	92.5	3.7	1019	1	US-08-296-014A-4	Sequence 4, Appl	1100	90	3.6	550	4	US-09-949-016-11512	Sequence 11512, A
1028	92.5	3.7	1019	2	US-08-596-405-4	Sequence 4, Appl	1101	90	3.6	745	4	US-09-548-797B-4	Sequence 4, Appl
1029	92.5	3.7	1019	2	US-08-877-620-4	Sequence 4, Appl	1102	90	3.6	787	4	US-09-548-797B-5	Sequence 5, Appl
1030	92.5	3.7	1019	4	US-09-287-368-4	Sequence 4, Appl	1103	90	3.6	802	4	US-09-632-098-2	Sequence 2, Appl
1031	92.5	3.7	1019	4	US-09-626-795-4	Sequence 4, Appl	1104	90	3.6	802	4	US-10-177-308-2	Sequence 2, Appl
1032	92	3.6	119	1	US-08-340-539A-15	Sequence 15, Appl	1105	90	3.6	812	4	US-09-632-098-4	Sequence 4, Appl
1033	92	3.6	119	1	US-08-340-539A-18	Sequence 18, Appl	1106	90	3.6	812	4	US-10-177-308-4	Sequence 4, Appl
1034	92	3.6	169	2	US-08-460-303-20	Sequence 20, Appl	1107	90	3.6	849	4	US-09-548-797B-6	Sequence 6, Appl
1035	92	3.6	169	2	US-08-125-077-20	Sequence 20, Appl	1108	90	3.6	997	3	US-09-369-364A-7	Sequence 7, Appl
1036	92	3.6	174	2	US-08-401-530A-2	Sequence 2, Appl	1109	90	3.6	1156	3	US-08-986-083-1	Sequence 1, Appl
1037	92	3.6	174	2	US-08-709-662-2	Sequence 2, Appl	1110	90	3.6	1156	3	US-09-429-516-1	Sequence 1, Appl
1038	92	3.6	175	1	US-08-909-725-6	Sequence 6, Appl	1111	90	3.6	1156	3	US-09-429-516-3	Sequence 3, Appl
1039	92	3.6	257	4	US-09-312-283C-381	Sequence 381, App	1112	90	3.6	1400	3	US-08-630-915A-37	Sequence 37, Appl
1040	92	3.6	492	4	US-09-635-872A-19	Sequence 19, Appl	1113	90	3.6	1400	4	US-09-879-957-37	Sequence 37, Appl
1041	92	3.6	492	4	US-09-636-077A-19	Sequence 19, Appl	1114	90	3.6	1833	3	US-08-479-722B-2	Sequence 2, Appl
1042	92	3.6	492	4	US-09-636-060C-19	Sequence 19, Appl	1115	90	3.6	1833	4	US-09-592-685-2	Sequence 2, Appl
1043	92	3.6	492	4	US-09-986-552-19	Sequence 19, Appl	1116	90	3.6	1833	5	PCT-US95-02251-18	Sequence 18, Appl
1044	92	3.6	492	4	US-09-636-596C-19	Sequence 19, Appl	1117	90	3.6	2508	4	US-09-627-650B-7	Sequence 7, Appl
1045	92	3.6	492	4	US-10-023-89A-20	Sequence 20, Appl	1118	90	3.6	2508	4	US-09-436-063C-7	Sequence 7, Appl
1046	92	3.6	492	4	US-10-306-686-19	Sequence 19, Appl	1119	89.5	3.5	115	3	US-08-722-126A-8	Sequence 8, Appl
1047	92	3.6	656	4	US-08-933-711B-15	Sequence 15, Appl	1120	89.5	3.5	115	5	PCT-US95-04258-8	Sequence 8, Appl
1048	91.5	3.6	136	2	US-08-560-098A-59	Sequence 59, Appl	1121	89.5	3.5	199	4	US-09-949-016-6129	Sequence 6129, Ap
1049	91.5	3.6	175	4	US-09-252-991A-18125	Sequence 18125, A	1122	89.5	3.5	199	5	PCT-US93-10418-2	Sequence 2, Appl

1123	89.5	3.5	205	4	US-09-949-016-10299	Sequence 10299, A	1196	87	3.4	515	4	US-09-636-596C-6	Sequence 6, Appl
1124	89.5	3.5	575	4	US-09-949-016-11264	Sequence 11264, A	1197	87	3.4	515	4	US-10-023-894-18	Sequence 18, Appl
1125	89.5	3.5	575	4	US-09-949-016-11265	Sequence 11265, A	1198	87	3.4	515	4	US-10-306-686-6	Sequence 6, Appl
1126	89.5	3.5	575	4	US-09-949-016-11266	Sequence 11266, A	1199	87	3.4	898	2	US-08-808-982-5	Sequence 5, Appl
1127	89.5	3.5	575	4	US-09-949-016-11267	Sequence 11267, A	1200	87	3.4	898	3	US-09-306-902A-5	Sequence 5, Appl
1128	89.5	3.5	879	4	US-09-872-733A-16	Sequence 16, Appl	1201	87	3.4	921	4	US-09-699-266A-9	Sequence 9, Appl
1129	89.5	3.5	1036	4	US-09-949-016-6910	Sequence 6910, Ap	1202	87	3.4	956	2	US-08-897-443-3	Sequence 3, Appl
1130	89.5	3.5	1049	4	US-09-949-016-11522	Sequence 11522, A	1203	87	3.4	2544	4	US-08-627-650B-3	Sequence 3, Appl
1131	89	3.5	274	3	US-09-188-930-336	Sequence 336, App	1204	87	3.4	2544	4	US-09-436-063C-3	Sequence 3, Appl
1132	89	3.5	274	3	US-09-312-283C-336	Sequence 336, App	1205	86.5	3.4	347	4	US-09-907-794A-148	Sequence 148, App
1133	89	3.5	430	3	US-08-997-897-2	Sequence 2, Appl	1206	86.5	3.4	347	4	US-09-905-125A-148	Sequence 148, App
1134	89	3.5	430	3	US-09-156-836B-2	Sequence 2, Appl	1207	86.5	3.4	347	4	US-09-902-775A-148	Sequence 148, App
1135	89	3.5	574	4	US-09-248-796A-15283	Sequence 15283, A	1208	86.5	3.4	347	4	US-09-906-700A-148	Sequence 148, App
1136	89	3.5	615	2	US-08-663-568A-17	Sequence 17, Appl	1209	86.5	3.4	347	4	US-09-903-603A-148	Sequence 148, App
1137	89	3.5	615	2	US-08-023-610-17	Sequence 17, Appl	1210	86.5	3.4	347	4	US-09-904-920A-148	Sequence 148, App
1138	89	3.5	615	2	US-08-288-065A-17	Sequence 17, Appl	1211	86.5	3.4	347	4	US-09-909-064-148	Sequence 148, App
1139	89	3.5	615	2	US-08-362-240A-17	Sequence 17, Appl	1212	86.5	3.4	347	4	US-09-905-381A-148	Sequence 148, App
1140	89	3.5	615	5	PCR-US95-10245-17	Sequence 17, Appl	1213	86.5	3.4	347	4	US-09-906-618-148	Sequence 148, App
1141	89	3.5	650	1	US-08-325-071-63	Sequence 63, Appl	1214	86.5	3.4	398	4	US-09-252-991A-26217	Sequence 26217, A
1142	89	3.5	650	3	US-08-461-004A-63	Sequence 63, Appl	1215	86.5	3.4	554	4	US-10-136-237A-30	Sequence 30, Appl
1143	89	3.5	746	4	US-09-589-892B-2	Sequence 2, Appl	1216	86.5	3.4	2601	4	US-09-981-649A-30	Sequence 30, Appl
1144	89	3.5	1342	1	US-07-978-895-4	Sequence 4, Appl	1217	86.5	3.4	2601	4	US-09-627-650B-9	Sequence 9, Appl
1145	89	3.5	1342	2	US-08-473-119-4	Sequence 4, Appl	1218	86	3.4	119	1	US-09-436-063C-9	Sequence 9, Appl
1146	89	3.5	1342	2	US-08-475-352-4	Sequence 4, Appl	1219	86	3.4	119	1	US-08-468-347-20	Sequence 20, Appl
1147	89	3.5	1342	4	US-09-170-699-4	Sequence 4, Appl	1220	86	3.4	119	2	US-08-226-264-24	Sequence 24, Appl
1148	89	3.5	1343	6	5183884-4	Sequence 4, Appl	1221	86	3.4	119	2	US-08-467-389-20	Sequence 20, Appl
1149	89	3.5	1343	6	5183884-4	Patent No. 5183884	1222	86	3.4	119	2	US-08-779-379-20	Sequence 20, Appl
1150	89	3.5	1360	4	US-09-949-016-8022	Sequence 8022, Ap	1223	86	3.4	119	2	US-08-469-219-20	Sequence 20, Appl
1151	89	3.5	2813	3	US-08-896-449A-2	Sequence 2, Appl	1224	86	3.4	119	3	US-09-228-152-19	Sequence 19, Appl
1152	89	3.5	2813	3	US-09-132-652-2	Sequence 2, Appl	1225	86	3.4	225	3	US-09-040-483-1	Sequence 1, Appl
1153	89	3.5	2813	4	US-09-886-900A-2	Sequence 2, Appl	1226	86	3.4	225	4	US-08-740-036-1	Sequence 13, Appl
1154	89	3.5	2813	4	US-09-662-478C-2	Sequence 2, Appl	1227	86	3.4	278	2	US-08-460-309-13	Sequence 13, Appl
1155	88.5	3.5	132	1	US-07-893-929A-5	Sequence 5, Appl	1228	86	3.4	278	2	US-08-125-077-13	Sequence 29, Appl
1156	88.5	3.5	132	5	PCR-US92-10344-5	Sequence 5, Appl	1229	86	3.4	279	1	US-08-152-019A-29	Sequence 29, Appl
1157	88.5	3.5	302	4	US-09-520-781-20	Sequence 20, Appl	1230	86	3.4	288	1	US-08-368-852-15	Sequence 15, Appl
1158	88.5	3.5	266	4	US-09-054-272-18	Sequence 18, Appl	1231	86	3.4	349	3	US-09-161-241-8	Sequence 8, Appl
1159	88.5	3.5	1170	1	US-08-313-288B-20	Sequence 20, Appl	1232	86	3.4	405	4	US-09-252-991A-30240	Sequence 30240, A
1160	88	3.5	225	4	US-08-832-488-2	Sequence 2, Appl	1233	86	3.4	410	6	5177197-1	Patent No. 5177197
1161	88	3.5	243	2	US-08-460-309-16	Sequence 16, Appl	1234	86	3.4	410	6	5177197-1	Patent No. 5177197
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1444	82.5	3.3	769	1	US-08-484-355-4	Sequence 4, Appl							
1445	82.5	3.3	769	4	US-09-949-016-9605	Sequence 9605, Ap							
1446	82.5	3.3	769	4	US-09-949-016-9606	Sequence 9606, Ap							
1447	82.5	3.3	1650	4	US-09-949-016-11387	Sequence 11387, A							
1448	82.5	3.3	1858	4	US-09-902-540-12643	Sequence 12643, A							
1449	82.5	3.3	2205	1	US-08-093-453B-2	Sequence 2, Appl							
1450	82	3.2	75	4	US-09-857-815B-37	Sequence 37, Appl							
1451	82	3.2	75	4	US-09-857-815B-61	Sequence 61, Appl							
1452	82	3.2	76	4	US-09-857-815B-2	Sequence 2, Appl							
1453	82	3.2	77	4	US-09-857-815B-1	Sequence 1, Appl							
1454	82	3.2	77	4	US-09-857-815B-7	Sequence 7, Appl							
1455	82	3.2	78	4	US-09-857-815B-6	Sequence 6, Appl							
1456	82	3.2	78	4	US-09-857-815B-9	Sequence 9, Appl							
1457	82	3.2	79	4	US-09-857-815B-5	Sequence 5, Appl							
1458	82	3.2	79	4	US-09-857-815B-8	Sequence 8, Appl							
1459	82	3.2	80	3	US-08-663-191A-1	Sequence 1, Appl							
1460	82	3.2	80	4	US-10-138-158-17	Sequence 17, Appl							
1461	82	3.2	80	4	US-09-857-815B-35	Sequence 35, Appl							
1462	82	3.2	111	6	5514582-20	Patent No. 5514582							
1463	82	3.2	111	6	5514582-20	Patent No. 5514582							
1464	82	3.2	187	6	5256643-2	Patent No. 5256643							
1465	82	3.2	187	6	5256643-2	Patent No. 5256643							
1466	82	3.2	192	4	US-09-949-016-7062	Sequence 7062, Ap							
1467	82	3.2	232	4	US-08-450-482B-123	Sequence 123, App							
1468	82	3.2	319	4	US-08-835-279-2	Sequence 2, Appl							
1469	82	3.2	395	4	US-09-270-767-43034	Sequence 43034, A							
1470	82	3.2	399	4	US-09-252-991A-28974	Sequence 28974, A							
1471	82	3.2	420	1	US-08-391-259-2	Sequence 2, Appl							
1472	82	3.2	420	2	US-08-839-425-2	Sequence 2, Appl							
1473	82	3.2	452	4	US-09-540-236-3462	Sequence 3462, Ap							
1474	82	3.2	467	4	US-09-270-767-46608	Sequence 46608, A							
1475	82	3.2	470	4	US-09-578-063-69	Sequence 69, Appl							
1476	82	3.2	612	3	US-08-762-500-79	Sequence 79, Appl							
1477	82	3.2	650	1	US-08-325-071-56	Sequence 56, Appl							
1478	82	3.2	650	3	US-08-461-004A-56	Sequence 56, Appl							
1479	82	3.2	688	1	US-08-325-071-57	Sequence 57, Appl							
1480	82	3.2	688	3	US-08-461-004A-57	Sequence 57, Appl							
1481	82	3.2	830	5	PCT-US91-05059-2	Sequence 2, Appl							
1482	82	3.2	830	6	5378464-2	Patent No. 5378464							
1483	82	3.2	830	6	5378464-2	Patent No. 5378464							
1484	82	3.2	1104	4	US-09-981-953A-4	Sequence 4, Appl							
1485	82	3.2	1245	2	US-08-801-263A-6	Sequence 6, Appl							
1486	82	3.2	1245	3	US-09-102-248-6	Sequence 6, Appl							
1487	82	3.2	1245	4	US-09-367-764-6	Sequence 6, Appl							

## ALIGNMENTS

## RESULT 1

US-09-866-028-50

; Sequence 50, Application US/09866028

; Patent No. 5642360

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Fillaroff, Ellen

; APPLICANT: Gerritsen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul

; APPLICANT: Grimaldi, Christopher

; APPLICANT: Gurney, Austin

; APPLICANT: Hillan, Kenneth

; APPLICANT: Kijavin, Ivar

; APPLICANT: Napier, Mary

; APPLICANT: Roy, Margaret

; APPLICANT: Tunas, Daniel

; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE OF INVENTION: ACIDS ENCODING THE SAME

; FILE REFERENCE: P2548P1C1

; CURRENT APPLICATION NUMBER: US/09/866,028

; CURRENT FILING DATE: 2001-05-25

; Prior application data removed - consult PALM or file wrapper

; NUMBER OF SEQ ID NOS: 120

; SEQ ID NO 50

; LENGTH: 455

; TYPE: PRT

; ORGANISM: Homo Sapien

US-09-866-028-50

Query Match 100.0%; Score 2529; DB 4; Length 455;

Best Local Similarity 100.0%; Pred. No. 1.3e-218;

Matches 455; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MLHPETSPGRGHLLAVLLALGTTTAAEVPQLOEQAPMAGNALNPKSFLLSLNRLRS 60

QY 61 WVQPPAADMRLDWSDSLQAQAAALCGITPTSLASGLWRTLQVGNWMLLPAGLASF 120

DB 61 WVQPPAADMRLDWSDSLQAQAAALCGITPTSLASGLWRTLQVGNWMLLPAGLASF 120

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DB 121 VEVVSLNFAEQRYSHRAGECARNATCTHYTQLVWATSSQLGCGRHLCAGTAAEFVC 180

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DB 181 AYSFGNWEVNGKTIIPYKGAWSCLTASVSGCFKANDHAGGLCEVPRNPCRMSQNHG 240

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Db 361 DSDPFRFWIGLTKTKADSPRWATGHEQAFTSFAFGPDNHHGLVWL-SAAMGFGNCVEL 420  
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Db 421 QASAAFNNDQCKTNRNYICQPAQEHISRWPGGS 455

RESULT 2

US-09-944-457-50  
; Sequence 50, Application US/09944457  
; Patent No. 6734288  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Kljavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tomas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P2548PICI  
; CURRENT APPLICATION NUMBER: US/09/944,457  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,335  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,278  
; PRIOR FILING DATE: December 11, 1997  
; PRIOR APPLICATION NUMBER: 60/069,425  
; PRIOR FILING DATE: December 12, 1997  
; PRIOR APPLICATION NUMBER: 60/069,696  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,694  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,702  
; PRIOR FILING DATE: December 16, 1997  
; PRIOR APPLICATION NUMBER: 60/069,870  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/069,873  
; PRIOR FILING DATE: December 17, 1997  
; PRIOR APPLICATION NUMBER: 60/068,017  
; PRIOR FILING DATE: December 18, 1997  
; PRIOR APPLICATION NUMBER: 60/070,440  
; PRIOR FILING DATE: January 5, 1998  
; PRIOR APPLICATION NUMBER: 60/074,086  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/074,092  
; PRIOR FILING DATE: February 9, 1998  
; PRIOR APPLICATION NUMBER: 60/075,945

; PRIOR FILING DATE: February 25, 1998  
; PRIOR APPLICATION NUMBER: 60/112,850  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 60/113,296  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 60/146,222  
; PRIOR FILING DATE: July 28, 1999  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: September 16, 1998  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: December 1, 1998  
; PRIOR APPLICATION NUMBER: 09/216,021  
; PRIOR FILING DATE: December 16, 1998  
; PRIOR APPLICATION NUMBER: 09/218,517  
; PRIOR FILING DATE: December 22, 1998  
; PRIOR APPLICATION NUMBER: 09/254,311  
; PRIOR FILING DATE: March 3, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: June 22, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: September 15, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28409  
; PRIOR FILING DATE: No. 6734288ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: No. 6734288ember 30, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/28301  
; PRIOR FILING DATE: December 1, 1999  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: December 16, 1999  
; PRIOR APPLICATION NUMBER: PCT/US00/03565  
; PRIOR FILING DATE: February 11, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: February 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: March 2, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/08439  
; PRIOR FILING DATE: March 30, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/14042  
; PRIOR FILING DATE: May 22, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/20710  
; PRIOR FILING DATE: July 28, 2000  
; PRIOR APPLICATION NUMBER: PCT/US00/32678  
; PRIOR FILING DATE: December 1, 2000  
; PRIOR APPLICATION NUMBER: PCT/US01/06520  
; PRIOR FILING DATE: February 28, 2001  
; NUMBER OF SEQ ID NOS: 120  
; SEQ ID NO 50  
; LENGTH: 455  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-09-944-457-50

Query Match 100.0%; Score 2529; DB 4; Length 455;  
Best Local Similarity 100.0%; Pred. No. 1.3e-218;  
Matches 455; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MLHPETSPGRGHLLVLLALLGTTTAEVWPPOLOEQAPMAGALNRKESFLLLSLHNRLRS 60  
Db 1 MLHPETSPGRGHLLVLLALLGTTTAEVWPPOLOEQAPMAGALNRKESFLLLSLHNRLRS 60  
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Db 61 WVOPPAADMRRLDWSDSLQAQARAALCGIPTPSLASGLWRTIQVGNMQLLPAGLASF 120  
Qy 121 VEVVSLWFAEGQRYSHAAGCARNATCTHTYTLVWATSSQLGCGRHLCGAGQTAIEAFVC 180  
Db 121 VEVVSLWFAEGQRYSHAAGCARNATCTHTYTLVWATSSQLGCGRHLCGAGQTAIEAFVC 180  
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Db 181 AYSFGGNWEVNGKTIIPYKKGAWCSLCTASVSGCFKAWDHAGGICEVPRNPCRMSCQNHG 240  
Qy 241 RLNISTCHCHCPGTYGRVQVRCSLQCVHGRFREECSCVCDIGYGAQCATKVHPFFH 300